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# Inspection Tag Plate



Remote  
Inspection Tag  
Holder First  
Offered by  
V-Twin Mfg. in  
1969



Inspection Tag Plate is available in stainless or chrome. Measuring 3 1/2" square with 1/2" or 3/8" mounting hole which can mount to footpeg or shock studs. 31-0282 is square type which clamps on to 1" to 1 1/8" tube with worm clamp included.

VT No.	Item	Type
31-0201	Stainless	.5"
31-0264	Chrome	.5"
31-0983	Chrome	3/8"
31-0282	Chrome	Clamp
31-0933	Black	.5"

## Scale Model



Cast Iron Police Solo Toy is collectible, from the original models of the 1920's, lasts for generations.  
VT No. 48-0160

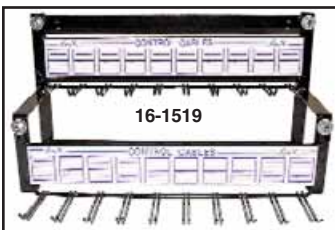
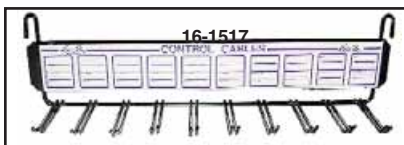


Endorsed by  
Pit and Esther Lengner  
[www.steilwand.de](http://www.steilwand.de)  
For more information about the original.

Wall of Death model by Faller. Unassembled. This is an original reproduction of the breathtaking Pit's steep face show. It functions like the original with three motorcycles driving around the steep face, complete with drive motor and automatic electronic control unit (16v AC/DC). With truck and trailer. H-O scale.  
VT No. 48-0867

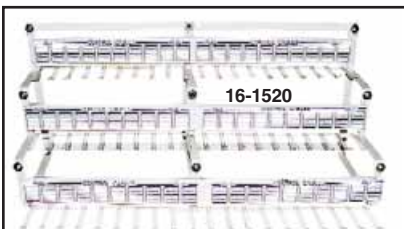


## Cable Racks



Cable Racks have epoxy finish, wall mount.

VT No.	Length	Capacity
16-1517	18"	50
16-1518	36"	100
16-1519	18" x 2 racks	200
16-1520	36" x 3 racks	500



V-Twin™ Commemorative is 1/25" scale measuring 7" long, lockable coin bank and authentic Tedd Cycle, Inc., V-Twin™ logos and colors.

VT No.	Type
48-1261	Dodge (11th Edition)
48-1262	Panel (12th Edition)
48-1263	Chevy Truck (13th Edition)
48-1264	Dodge Pickup (14th Edition)
48-1265	Coupe (15th Edition)
48-1266	Truck (16th )Edition
48-1267	1955 Cameo Truck (17th) Edition
48-1268	(17th) Edition

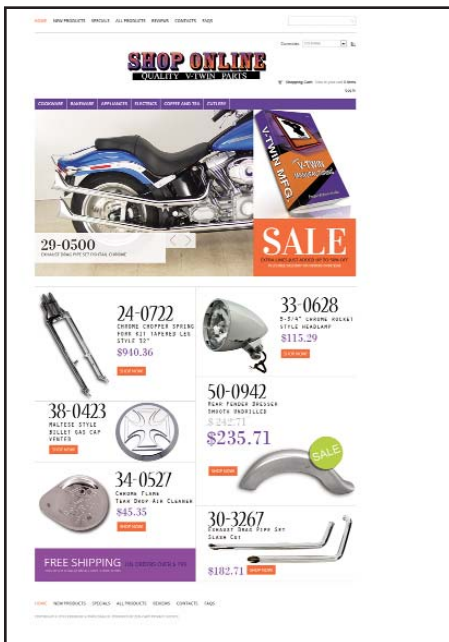




VT No.  
48-0035

V-Twin Catalog is available for dealers to supply to customers.

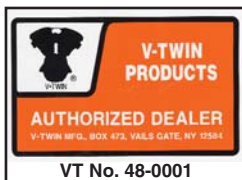
VT No. 48-0035



V-Twin Zen Cart E-Commerce Site.  
VT. 48-6001



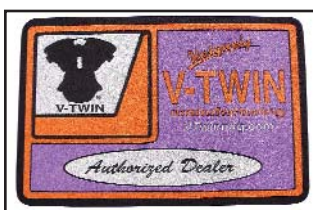
VT No. 48-0004



VT No. 48-0001

V-Twin™ Dealer Promo Items. V-Twin™ Hours Open Sign in double faced for use on windows or opaque surfaces. V-Twin™ Authorized Dealer Decal is in full color on mylar.

VT No.	Decal
48-0004	Hours
48-0001	Dealer



V-Twin™ Counter mat features our colorful logo. Orange, purple and black on carpet.  
VT No. 48-0012



CD ROM of the V-Twin Mfg Catalog for Computers. For Windows or Macs.  
VT No. 48-5010



V-Twin™ Shop Bag. Full color V-Twin™ Logo, 8" x 16" deep. Sold in 50 pack.  
VT No. 48-0040 White  
48-0054 Clear



V-Twin™ Mfg. Post Mount Sign Kit is a double sided 18 x 24 unit which includes angle bracket.  
VT No. 48-0090



V-Twin Mouse Pad made of natural rubber. Measures 8 3/4" x 7" with 1/8" thickness. Purple and orange cloth.  
VT No. 48-1505



V-Twin Product Sign is constructed of 30 gauge steel measuring 18" x 18"  
VT No. 48-1114



Tedd Cycle, Inc. Company Profile Brochure includes credit card application and order forms.  
VT No. 48-0159



Bottler Opener  
VT No. 48-0545 Tedd Cycle  
48-1965 Motorcyclepedia



V-Twin Dealer Decal features full color on adhesive vinyl for indoor or outdoor display, measuring 14" x 14".  
VT No. 48-0164



H-D Flame Rubber Mat measures 14" x 17".  
VT No. 48-0071

## V-Twin™ Reference



V-Twin™ Catalog Racks are black with a V-Twin logo. Feature steel construction to firmly sit on countertop. The 24" model holds twelve 1" and three 2" catalogs. The 3-ring sections in 1" or 2" size and swivel base are available separately.

VT No.	Item
48-1702*	18" Rack
48-1712	Turntable for Rack
48-1703	1" Ring Section
48-1704	2" Ring Section

\*Note: Order ring sections separately.



V-Twin™ Dealer Promo Wall Banner Pack includes banner and (2) V-Twin Catalogs. The banner is in full color. Measures 3' x 6'. Heavy gauge vinyl.  
VT No. 48-0068



Wyatt Gatling features metal product logo measuring 18" x 24".  
VT No. 48-0103



Tedd Cycle Original Logo Metal Sign. Embossed .040mm thick steel.  
VT No. 48-0945



Wire Tags in a pack of 25, 1 7/8" x 3 3/4" with wire attached.  
VT No. 48-0118

## Countermats



Accel Floor Mat  
VT No. 48-0201



# Pewter



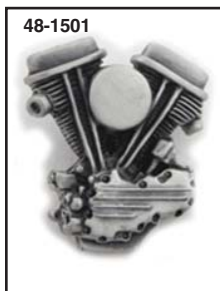
**Pewter Motors** are mounted on a wooden base.

VT No.	Type
48-1765	Flathead
48-1766	Panhead
48-1767	Knucklehead
48-1768	Shovelhead
48-1770	Evolution
48-1901	DeDion Bouton



**Pewter Clocks** with silver patina. Battery included.

VT No.	Item
48-1654	Motorcycle
48-1653	V-Twin Motor



**V-Twin Motor Lapel Pins** with silver patina.

VT No.	Style
48-1501	Panhead
48-1502	Knucklehead
48-1503	Flathead
48-1511	Shovelhead
48-1513	Evolution



*Dual Row  
Panhead Buckle Style  
Primary Chain Belt*



**Dual Row Panhead Buckle Style Primary Chain.**

VT No.	Size
48-0594	36"
48-0595	38"
48-0596	40"
48-0597	42"



**V-Twin Engine  
Medallion  
VT No. 48-0944**

# Goggle



**Road Goggles** feature original designs with adjustable elastic straps. Face area available in either vinyl or leather, rim around the lens available in black or chrome.

VT No.	Type	Face	Rim	Lens
48-0222	Red Baron Vinyl	Black	Split	Split
48-0622	Aviator	Leather	Chrome Smooth	Chrome Smooth



**Retro Goggles** are available with smokey or clear lenses.

VT No.	Type
48-0853	Smokey
48-0854	Clear





# Belt Buckles



Belt Buckles fit standard size men's belt.

**VT No. Item**

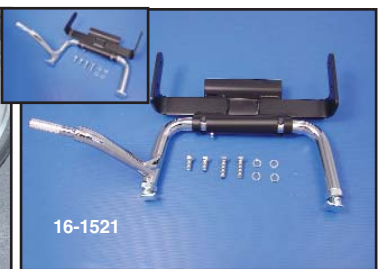
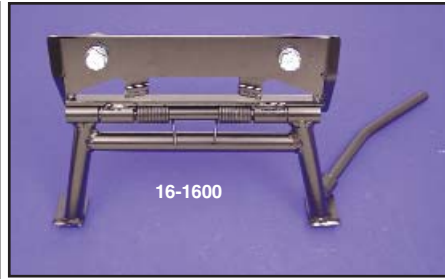
48-0471 Panhead Cam Cover  
48-1112 Oval First V-Twin  
48-1113 1936 Knucklehead Bronze Accent  
48-0879 Knucklehead 61" 1936-47  
48-0949 Knucklehead 1939 Cam Cover  
48-0948 Flatside Shovelhead Cam Cover  
48-1352 Shovelhead Round, Brass  
48-1351 Ironhead 1972-85  
48-0825 Duo-Glide, Oval  
48-0823 Electra Glide  
48-0934 Chopper  
48-1508 Linkert Teardrop  
48-1509 Linkert Round  
48-1510 Panhead  
48-1545 XL Cam Cover  
48-1507 V-Twin Round  
48-0959 Curtiss  
48-1115 V-Twin Round Bronze  
48-1632 Motorcycle Postage Stamp  
48-1633 Beck Spark Plug  
48-1473 Sportster  
48-1773 JD Motor  
48-1660 Liberty "Stand Up for America"  
48-1674 Liberty 100 Year Anniversary  
48-0937 Live to Ride 75th Anniversary  
48-1776 American Legend  
48-0901 Skeleton Hand

**VT No. Item**

48-7779 Skull with wings  
48-7780 Skull with wings  
48-7781 Live to Ride Chopper  
48-7782 Skull with Snake  
48-7783 1936 Knucklehead  
48-7784 Live to Ride, 75th 3" diameter  
48-1115 V-Twin  
48-7787 XLCH 1957 Sportster  
48-1769 Loud Pipes Save Lives  
48-1473 Ironhead XLH Electric Start Style  
48-1512 Wyatt Gatling Sportster Gas Tank  
48-1775 Motorcycling "Greatest Sport"  
48-0824 Motorcyclepedia Hill Climber, Brass  
48-1892 Motorcyclepedia  
48-1645 Linkert Carburetor  
48-0367 Wall of Death  
48-0448 Triumph  
45-1510 Panhead  
48-1928 Indian 101  
48-1673 Indian Chief  
48-1643 Indian  
48-1774 Indian 1901  
48-7785 Indian 4 cylinder  
48-7786 Indian Power Plus  
48-1970 Nose Cone Cam Cover  
48-1655 45" Cam Cover  
48-0881 Timken Oval  
48-0882 Columbia Hi Wheel Oval  
48-0929 Tedd Cycle  
48-1966 NY State License Plate



# Display Center Stands



**Adjustable Display Center Stands** show your bikes. Single lever on left side allows bikes to be lifted up on stand. Very little effort required. Entire assembly fits neatly under frame rails. 2 bolt installation. **Caution:** Not intended for use as a ride off stand.

**Note:** 16-1600 is non-adjustable.

VT No.	Year	Model	Finish				
16-1111	1965-84	FLH	Chrome	16-1110	2009-up	Touring	Chrome
16-1600	1980-08	Touring	Black	16-1521	1992-07	Softail	Chrome
16-1109	1989-08	Touring	Black/Chrome	16-1522	2008-up	Softail	Chrome
16-1101	1989-08	Touring	Chrome	16-1511	1970-79	FLH	Chrome



## Covers



**Guardian Covers by Dowco** feature a Moisture-Guard venting system which eliminates harmful condensation. A flannel liner is provided in the 125 and 100 series to protect the windshield area from unsightly scratches. Standard features include scratch resistant aluminized panel reinforced grommets for use with a cable or bar lock, elastic cord sewn into the entire bottom hem to provide a secure fit.

VT No.	Dow #	Fits
48-2010	G-125	Full Dresser with Fairing, Windshield, Tour Pack, Backrest, etc.
48-2012	G-100	All Twins with Sissy Bars. Will not fit Full Dresser models.
48-2011	G-50	All models without Sissy Bars
48-2013	G-150	XX-Large



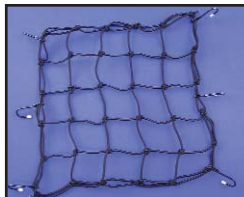
**Guardian Custom Bike Covers** by Dowco. Available for custom bikes with wheel bases up to 72" and 109". These covers feature soft cotton fabric interior lining to protect painted and chrome surfaces, shock cord hem along the bottom for easy installation, reinforced grommets for use with cable lock to help prevent theft and breathable material that lets damaging moisture escape.

VT No.	Max Wheel Base
48-1228	72"
48-1227	109"

**Guardian Ultra Lite Covers by Dowco** are water resistant nylon with vent-aires to protect your bike from moisture. Reinforced grommets for cable or bar locks and elastic bottom rim for snug fit in burgundy with light gray bottom and include storage bag.

VT No.	Part#	Description
48-2014	Leg-02	Touring/Full Dress (XL)
48-2015	Leg-01	Full Dress (L)

## Bungee Cord & Security



**Helmet Net** secures the helmet to the seat with elastic tension.

VT No.	Item
48-0232	20" x 20"
48-0339	15" x 15"



**Bungee Cords** are black elastic sold in 10 packs.

VT No.	Item
48-0228	12" Single
48-0227	2-12", 4 hook
37-8982	Bungee Nut 3/8 x 24 mounts to stock studs
37-8983	Bungee Nut 3/8 x 16 mounts to stock studs



**Disc Brake Rotor Lock** acts as dead bolt through rotor.

VT No. 48-0703



**Chrome Padlock** is factory style with two keys.  
VT No. 48-0121



**Chrome Helmet Lock** clamps to 7/8" through 1 1/4" diameter tubing, secures helmet.  
VT No. 48-1732





# Tool Kit

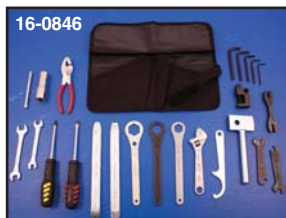
**V-Twin Rider Tool Kits.** Complete kits, supplied as appropriate for each year and model; includes canvas tool roll. Entire kit fits individual kidney shaped tool box!

## Tool Kits

VT No.	Fits
16-0849	1957-70 XL
16-0846	1977-84 XL
16-0746	1986-up XL, TC-88 ST
16-0850	1979-84 FLT
16-0857	1985-up FLT
16-0854	1985-88 FXST, 1986-88 FLST
16-0856	1989-up FXST, 1989-up FLST
16-1007	1989-up Softail Tool Kit

## Early Tool Kits.

16-0843	1936-57 61 and 74 OHV
16-0844	1958-72 OHV
16-0840	1929-73 45" and Solo
16-0841	1930-40 SV-VL-ULH
16-0842	1941-48 SV-VL-ULH



# Tool Pouch & Roll



**Tool Pouch** with duo strap has extra thick leather, measures 8 3/4 x 2 3/4 x 5 1/2. Black. VT No. 48-3136



**FLH Windshield Pouch.** Windshield bag. Heavy oily leather, glued, sewn, riveted. Black, 9" x 3" x 6". VT No. 48-3125



**Heavy Leather Tool Bag** with duo strap measures 10" x 4 1/2" x 3" and is 8 oz. leather. Full grain top leather is tanned oiled and wax treated. Features 4-way adjustable straps for easy mounting. VT No 48-3113



**Soft Leather Tool Roll** features fully padded inside zipper and velcro secured flap. Includes two heavy leather mount straps with roller buckles. The tool roll measures 11 1/2" L x 4" W x 4 1/4" H. VT No. 48-3116



**Double Strap Tool Roll** with duo strap. Heavy leather roll, measures 10" x 4 1/2" x 3" tall. VT No. 48-3112

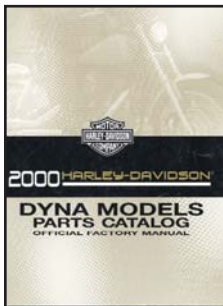
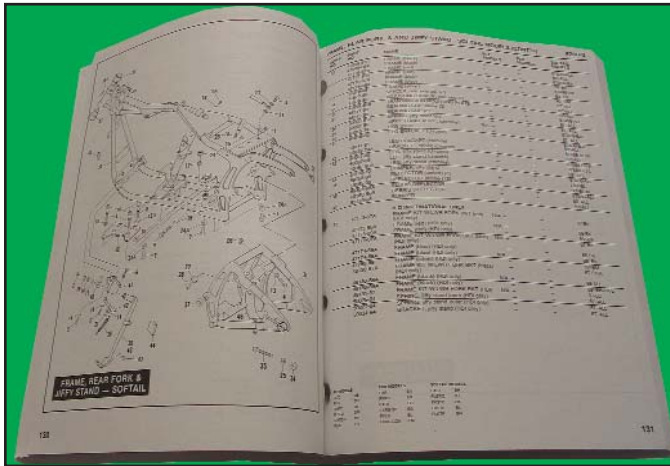


## Tool Rolls and Pouches

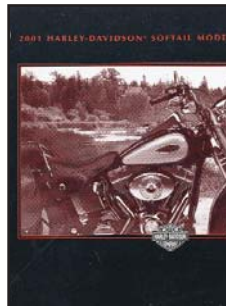
48-0570	Nylon	Pouch
48-0571	Nylon	Roll
48-0572	Canvas	Roll



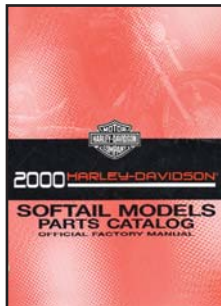
# Big Twin Parts Book



48-0680

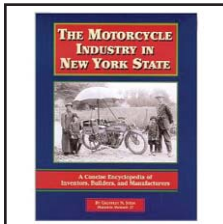


48-0604



48-0679

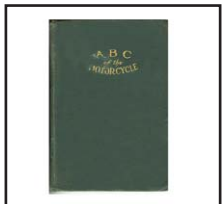
Spare Parts Books provide OEM numbers with exploded views to help identify exact parts required for each year application and range of fitment for each part.



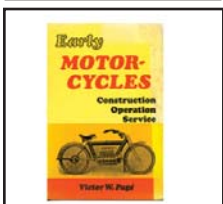
**The Motorcycle Industry in New York State History** by Geoffrey N. Stein.  
VT No. 48-1242



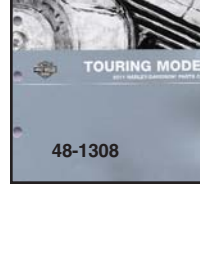
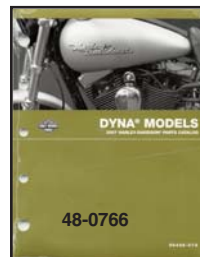
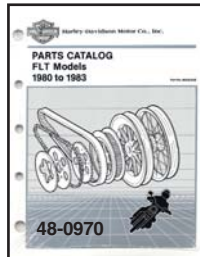
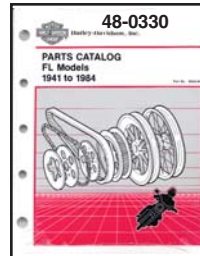
**Q&A Repair** by Uncle Frank. This repair manual cover most Harley-Davidson and Indian tech tips. 216 pages.  
VT No. 48-0407



**Hard Covered Motorcycle Books.**  
VT No. Title  
48-0936 ABC 1920  
48-0935 1912



**Early Motorcycle Construction Operation Service** by Victor W. Page. 506 pages.  
VT No. 48-0366



**Spare Parts Books** provide detailed exploded views and OEM factory numbers for specific models.

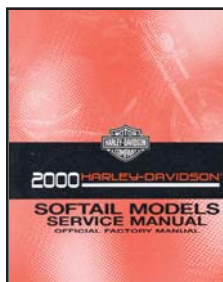
VT No.	OEM	Years/Model
48-0330	99456-84B	1941-84 FLH
48-0972	99455-86A	1984-86 FXST, 1985-86 FX
48-0973	99439-83B	1982-83 FXR
48-0974	99439-86A	1984-86 FXR
48-0591	99426-99	1999 FXR <sup>2</sup>
48-0592	99427-99	1999 FXR <sup>3</sup>
48-0601	99429-00	2000 FXR <sup>4</sup>
48-1558	99450-92	1991-92 Big Twin
48-1590	99450-94	1993-94 1340 Big Twin
48-0986	99450-90	1995-96 1340 Big Twin
48-0970	99438-83B	1980-83 FLT
48-0971	99438-86B	1984-86 FLT
48-0950	99456-97	1997 FLT
48-0698	99456-98A	1998 FLT
48-0709	99456-99A	1999 FLT
48-0678	99456-00A	2000 FLT
48-0602	99456-01	2001 FLT
48-0620	99456-02	2002 FLT
48-0718	99456-03	2003 FLT
48-0625	99456-04	2004 FLT
48-0727	99456-05	2005 FLT
48-0735	99456-06	2006 FLT
48-0770	99456-08	2008 FLT
48-1238	99456-09	2009 FLT
48-1299	99456-10	2010 FLT
48-1308	99456-11	2011 FLT
48-1314	99456-12	2012 FLT
48-1243	99602-10	2010 Trike
48-0951	99439-97	1997 Dynaglide
48-0811	99439-98A	1998 Dynaglide
48-0710	99439-99	1999 Dynaglide
48-0680	99439-00	2000 Dynaglide
48-0603	99439-01	2001 Dynaglide
48-0619	99439-02	2002 Dynaglide
48-0719	99439-03	2003 Dynaglide
48-0624	99439-04	2004 Dynaglide
48-0736	99439-06	2006 Dynaglide
48-0766	99439-07	2007 Dynaglide
48-0771	99439-08	2008 Dynaglide
48-1239	99439-09	2009 Dynaglide
48-1300	99439-10	2010 Dynaglide
48-1315	99439-12	2012 Dynaglide
48-0952	99455-97	1997 Softail
48-0997	99455-98A	1998 Softail
48-0711	99455-99	1999 Softail
48-0679	99455-00A	2000 Softail, deuce
48-0604	99455-01A	2001 Softail, deuce
48-0618	99455-02	2002 Softail
48-0720	99455-03	2003 Softail
48-0623	99455-04	2004 Softail
48-0767	99455-07	2007 Softail
48-0772	99455-08	2008 Softail
48-1240	99455-09	2009 Softail
48-1301	99455-10	2010 Softail
48-1310	99455-11	2011 Softail
48-1316	99455-12	2012 Softail
48-0617	99457-02	2002 VRSC
48-0721	99457-03	2003 VRSC
48-0621	99457-04	2004 VRSC
48-0730	99457-05	2005 VRSC
48-0738	99457-06	2006 VRSC
48-0768	99457-07	2007 VRSC
48-0773	99457-08	2008 VRSC
48-1241	99457-09	2009 VRSC
48-1302	99457-10	2010 VRSC



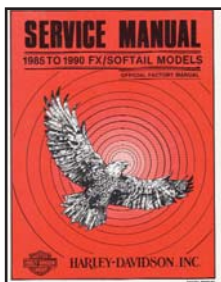




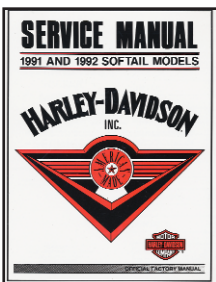
# Big Twin Factory Service Manual



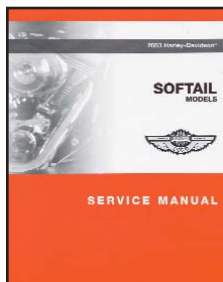
48-0683



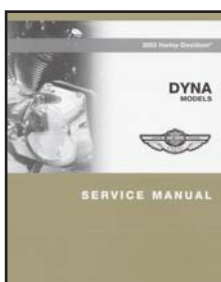
48-0992



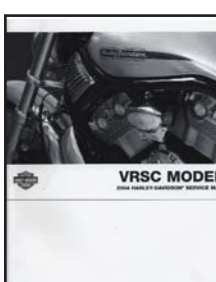
48-1561



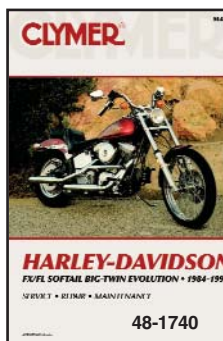
48-0716



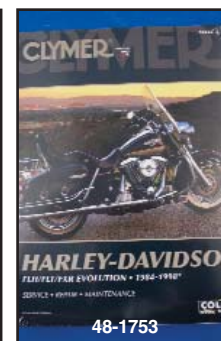
48-0715



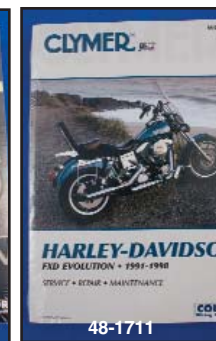
48-0629



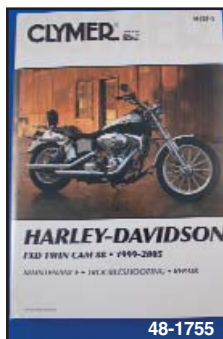
48-1740



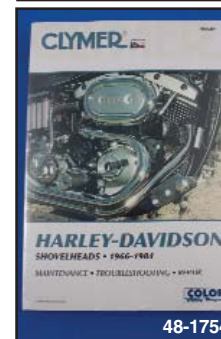
48-1753



48-1711



48-1755



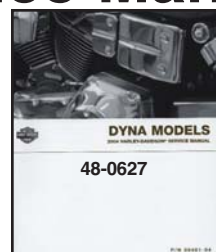
48-1754

Clymer Repair Manuals contain tips from engine tuning to complete wiring. Feature exploded views and photos, step by step instructions. New editions.

VT No.	Year/Model
48-1740	1984-99 FXST-FLST
48-1741	1984-94 FLT-FXR
48-1753	1995-98 FLT-FXR
48-1711	1991-98 Dynaglide
48-1755	1999-05 Dynaglide
48-1763	2006-11 Dynaglide
48-1707	1966-84 Shovelhead
48-1759	2000-05 FXST-FLST
48-1754	1999-05 FLT
48-1761	2006-09 FXST-FLST
48-1762	2006-09 FLT



48-0626



48-0627



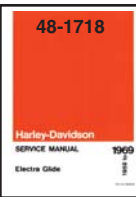
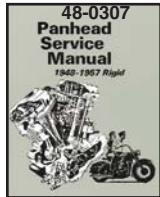
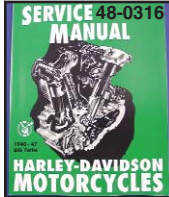
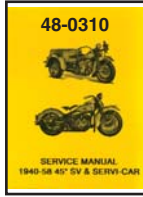
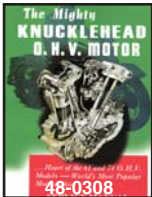
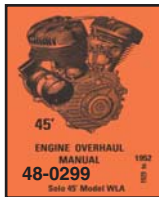
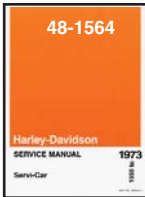
48-0628

Service Manuals for years listed. Manuals cover disassembly, renewal and reassembly procedures. Includes information about engines, electrical systems, frame and forks, fuel system, transmissions, wheels and more.

VT No.	OEM	Year/Model
48-0692	99482-78	1970-Early78 FL-FX
48-0696	99482-84	1978 1/2-84 FL-FX
48-0663	99483-83	1980-83 FXR-FLT
48-0993	99483-90	1984-90 FXR-FLT
48-1560	99483-92	1991-92 FXR-FLT
48-1587	99483-94A	1993-94 FXR-FLT
48-1745	99483-96	1995-96 FXR-FLT
48-0593	99480-99	1999 FXR/FXR <sup>3</sup>
48-0607	99480-00	2000 FXR <sup>4</sup>
48-0954	99483-97	1997 FLT
48-0706	99483-99A	1999 FLT
48-0682	99483-00A	2000 FLT
48-0608	99483-01	2001 FLT
48-0612	99483-02	2002 FLT
48-0714	99483-03	2003 FLT
48-0626	99483-04	2004 FLT
48-0731	99483-05	2005 FLT
48-0752	99483-06	2006 FLT
48-0759	99483-07	2007 FLT
48-0774	99483-08	2008 FLT
48-1234	99483-09	2009 FLT
48-1295	99483-10	2010 FLT
48-1305	99483-11	2011 FLT
48-1317	99483-12	2012 FLT
48-0852	2006-09	Side Cars
48-1577	99481-92	1991-92 Dynaglide
48-1588	99481-94	1993-94 Dynaglide
48-1793	99481-96	1995-96 Dynaglide
48-0955	99481-98	1997-98 Dynaglide
48-0707	99481-99A	1999 Dynaglide
48-0684	99481-00	2000 Dynaglide
48-0609	99481-01	2001 Dynaglide
48-0613	99481-02	2002 Dynaglide
48-0715	99481-03	2003 Dynaglide
48-0627	99481-04	2004 Dynaglide
48-0732	99481-05	2005 Dynaglide
48-0753	99481-06	2006 Dynaglide
48-0775	99481-07	2007 Dynaglide
48-0760	99481-08	2008 Dynaglide
48-1235	99481-09	2009 Dynaglide
48-1296	99481-10	2010 Dynaglide
48-1306	99481-11	2011 Dynaglide
48-1318	99481-12	2012 Dynaglide
48-0992	99482-90	1985-90 FXST-FLST
48-1578	99965-89	1989 Big Twin International
48-1561	99482-92	1991-92 FXST-FLST
48-1589	99482-94	1993-94 FXST-FLST
48-1744	99482-96	1995-96 FXST-FLST
48-0956	99482-98	1997-98 FXST-FLST
48-0708	99482-99	1999 FXST-FLST
48-0683	99482-00A	2000 FXST-FLST, deuce
48-0610	99482-01	2001 FXST-FLST, deuce
48-0614	99482-02	2002 FXST-FLST
48-0716	99482-03	2003 FXST-FLST
48-0628	99482-04	2004 FXST-FLST
48-0733	99482-05	2005 FXST-FLST
48-0754	99482-06	2006 FXST-FLST
48-0761	99482-07	2007 FXST-FLST
48-0776	99482-08	2008 FXST-FLST
48-1236	99482-09	2009 FXST-FLST
48-1297	99482-10	2010 FXST-FLST
48-1307	99482-11	2011 FXST-FLST
48-1319	99482-12	2012 FXST-FLST
48-0615	99501-02	2002 VRSC
48-0717	99501-03	2003 VRSC
48-0629	99501-04	2004 VRSC
48-0734	99501-05	2005 VRSC
48-0756	99501-06	2006 VRSC
48-0769	99501-07	2007 VRSC
48-0777	99501-08	2008 VRSC
48-1237	99501-09	2009 VRSC
48-1298	99501-10	2010 VRSC

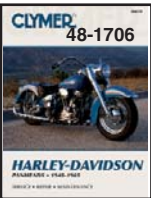


# Book and Manual



Service Manuals for years listed.

VT No.	Years	Model
48-1564	1959-73	Servi-Car
48-0299	1929-52	45 Engine Only
48-0308	1940-47	Knucklehead, 74 and 80 Flathead
48-0316	1940-47	Big Twin, Knucklehead
48-0310	1940-58	Two Wheeler and Servi-Car
48-0307	1948-57	Panhead, Rigid
48-1718	1959-69	Electra Glide
48-0692	1970-E78	Electra Glide FL/FLH/1200; Super Glide FX/FXE/FXS/1200



Clymer Manuals.

VT No.	Year/Model
48-1706	1948-65 Panhead
48-1707	1966-85 Shovelhead



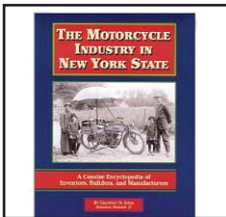
Mechanics and Owners Guide for 1941-1959 Harley-Davidson OHV Big Twins by Kirk Perry, drawings, photos and tips.

VT No.	Volume
48-1958	1
48-1959	2



Cross Index cross references old 6 digit factory part numbers with new 7 number listing. Helps reference obsolete numbers in old parts books, 53 pages.

VT No. 48-0331



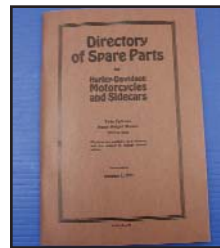
The Motorcycle Industry in New York State History by Geoffrey N. Stein.

VT No. 48-1242

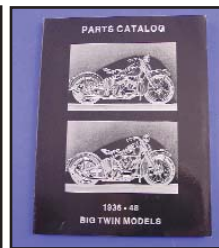


Spare Parts Books.

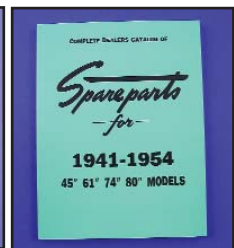
VT No.	Year
48-0981	1948-55
48-0982	1956-65



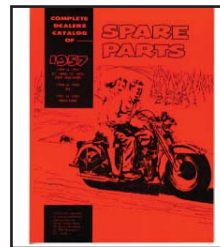
48-0336



48-0323



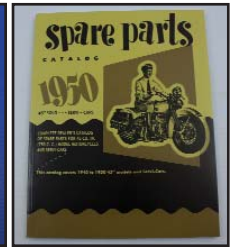
48-0309



48-0314



48-0313



48-0304



48-0328



48-0319



48-1244

Spare Parts Books provide detailed exploded views and OEM factory numbers for specific models. Parts Books provide OEM numbers with exploded views to help identify exact parts required for each year application and range of fitment for each of those parts

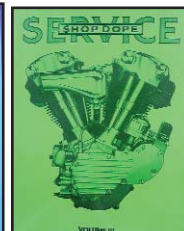
VT No.	Years/Model
48-0336	1913-21 Twins
48-0323	1936-48 Knucklehead and Flat Big Twin
48-0309	1941-54 74-80, 45 Servi-Car
48-0328	1927-36
48-0314	1949-57 Panhead
48-0313	1958-68 Big Twin
48-0304	1940-52 45 Solo
48-1244	1968-70 Servi-Car
48-0319	1958-73 Servi-Car



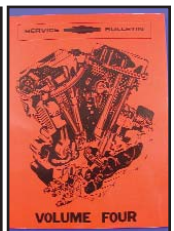
48-0329



48-0311



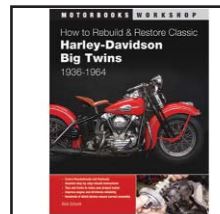
48-0305



48-0320

Factory Service Bulletins. "Shop Dope" is a compilation of service tips from factory to dealers for years listed. Great for trouble shooting. Bound.

VT No.	Year	Volume
48-0329	1912-26 Twins	1
48-0311	1930-40 Twins	2
48-0305	1941-56 Twins	3
48-0320	1957-69 Twins	4

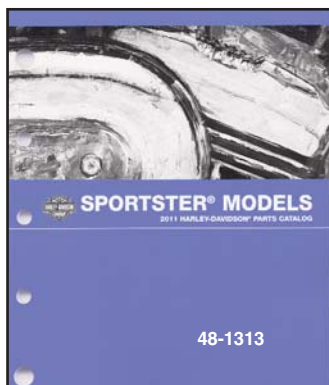
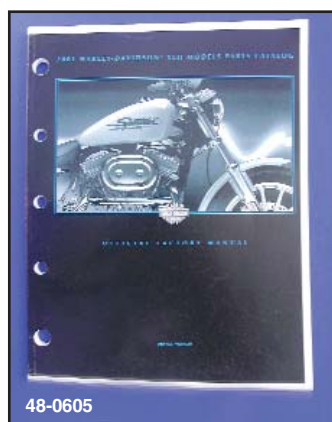
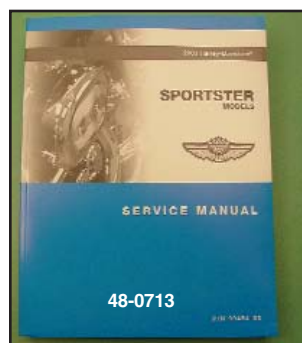


Harley-Davidson Restoration Book .  
VT No. 48-0579





# Parts Book and Service Manual for XL's



Spare Parts Books provide OEM numbers with exploded views to help identify exact parts required for each year application & range of fitment for each part.

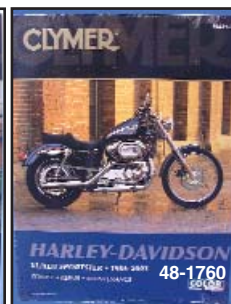
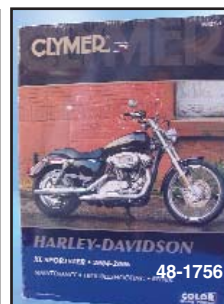
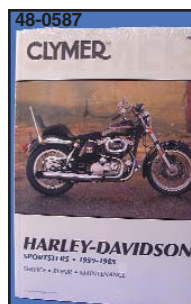
**Spare Parts Books** provide detailed exploded views and OEM factory numbers for specific models.

VT No.	OEM	Years
48-0306	—	1954-65
48-0322	99426-77	1977 Cafe
48-0332	99451-78B	1954-78
48-0977	99451-85A	1979-85
48-0978	99451-90	1986-90
48-1557	99451-92	1991-92
48-1591	99451-93	1993-94
48-0987	99451-96A	1995-96
48-0953	99451-97	1997
48-0676	99451-98A	1998
48-0712	99451-99A	1999
48-0677	99451-00A	2000
48-0605	99451-01	2001
48-0616	99451-02	2002
48-0722	99451-03	2003
48-0724	99451-04	2004
48-0725	99451-05	2005
48-0739	99451-06	2006
48-0758	99451-07	2007
48-0779	99451-08	2008
48-1232	99451-09	2009
48-1304	99451-10	2010
48-1313	99451-11	2011

**Note:** For our Product Descriptions “XL” denotes for Sportster models (including XLH, XLCH, XLS).

**Service Manuals** for years listed. Manuals cover disassembly, renewal and reassembly procedures. Includes information about engines, electrical systems, frame and forks, fuel system, transmissions, wheels and more.

VT No.	OEM	Years
48-1719	99484-69	1959-69
48-0659	99484-78	1970-78
48-1723	99484-85	1979-85
48-0990	99484-90	1986-90
48-1559	99484-92	1991-92
48-1586	99484-94	1993-94
48-0808	99484-96	1995-96
48-0964	99484-97	1997
48-0704	99484-98	1998
48-0705	99484-99	1999
48-0681	99484-00	2000
48-0606	99484-01	2001
48-0611	99484-02	2002
48-0713	99484-03	2003
48-0723	99484-04	2004
48-0726	99484-05	2005
48-0755	99484-06	2006
48-0757	99484-07	2007
48-0778	99484-08	2008
48-1233	99484-09	2009
48-1303	99484-10	2010
48-1312	99484-11	2011
48-1320	99484-12	2012



**Clymer Repair Manuals** for XLs. Contain tips from engine tuning to complete wiring. Features lots of exploded views and photos, step by step instructions. New editions.

VT No.	Years
48-0587	1959-85
48-1756	2004-11
48-1760	1986-03
48-0598	2004-up



# Chemical

VHT Special Finishes 11 oz. size, each.

- |               |   |
|---------------|---|
| <b>VT No.</b> | <b>VHT Finish</b>   |
| 41-0123       | Black wrinkle   |
| 41-0125       | Flame proof 1350 flat   |
| 41-0149       | Heat Silver finish  |
| 41-0124       | Black oxide paint   |
| 41-0126       | Black epoxy enamel gloss  |
| 41-0144       | Black barrel paint satin restores factory look to cast iron cylinders |



41-0126



41-0149



41-0144



41-0123



41-0125



41-0124



**PJ1 Chain Lube** is a heavy duty chain lube for street or off road.

- |               |             |
|---------------|-------------|
| <b>VT No.</b> | <b>Size</b> |
| 41-0132       | 6 oz.       |
| 41-0133       | 17 oz.      |



**PJ1 Blue Label** is heavy duty. Won't fly off.

- |               |             |
|---------------|-------------|
| <b>VT No.</b> | <b>Size</b> |
| 41-0134       | 8 oz.       |
| 41-0135       | 18 oz.      |



**Air Filter Oils and Cleaners.** K&N type is for paper elements. Unifilter type for foam elements.

- |               |             |                   |
|---------------|-------------|-------------------|
| <b>VT No.</b> | <b>Size</b> | <b>Item</b>       |
| 41-0171       | 12 oz.      | K&N Cleaner       |
| 41-0172       | 6.5 oz.     | K&N Oil           |
| 41-0173       | 16 oz.      | Unifilter Cleaner |
| 41-0174       | 5.5 oz.     | Unifilter         |



**Chrome Guard** is a heat resistant coating for exhaust pipes, sold each.

**VT No. 41-0161**



**PJ1 Cable Lube** cleans and lubricates in one application, 11 oz. can.

**VT No. 41-0175**



**Kreem Heat Coating** protects pipes from bluing.

**VT No. 41-0163**



**Super Cleaner by PJ1 Points and Spark Plug Cleaner**

removes grease and dust, while displacing moisture. 13 oz. size.

**VT No. 41-0128**



**Simi Chrome** is the original German formula. Available in case of 24 tubes in a display box.

**VT No. 41-0117**



**X-Trem Products** are sold each.

- |               |             |               |
|---------------|-------------|---------------|
| <b>VT No.</b> | <b>Size</b> | <b>Item</b>   |
| 41-7001       | 32 oz.      | Cycle Cleaner |
| 41-7010       | 8 oz.       | Cycle Wax     |



**Nevr-Dull Wadding Polish** is a cotton wadding to clean and polish chrome aluminum and brass. Tear off a small wad and rub surface to be cleaned, then polish with a dry cloth, leaving a protective film, 5 oz. can.

**VT No. 41-0119**





Motor Shop Oil. All are sold in case of six in quart size bottles.

VT No.	Type	Weight
41-0991	SynGold	20w50w
41-0992	Heavy Duty	60w
41-0993	Synthetic Gear Lube	Transmission/Primary
41-0994	Synthetic Clean	20w50w
41-0995	Heavy Duty	20w50w
41-0996	Heavy Duty/Synthetic	50w

**Motor Shop Ready Transmission/Primary Formulated Lube** is a synthetic blend lube to provide excellent lubricity for the anti-wear requires of transmission gears and primary components. Adds protection between moving parts and out performs conventional oils. Use in all Big Twin transmissions and primary chain case 1984-up Sportster transmission and primary case 1971-up.

VT No. 41-0993

**Motor-Transmission-Primary-Fork Lubes** OE type, including semi-synthetic transmissions lube for 4 and 5-Speed Big Twin FL-FXR-FXST models.

VT No.	OEM	Model/Type	Qty
41-0183	99816-2050	Motor SAE 20-50-360	12
41-0185	99816-60	Motor SAE 60-360	12
41-0162	99892-84	Big Twin Trans, Semi Synthetic	Each
41-0192*	99851-05	Big Twin Trans Formulated	Each
41-0178	99880-73	B Type Fork Oil	Each
41-0179	99884-80	E Type Fork Oil	Each
41-0191	99881-87	SE Type Fork Oil	Each

\*Note: Also for Sportster Primary.



16 oz. Fork Oil.

VT No.

Weight

41-0148

10W

41-0136

20W

41-0116

30W



**Gear Oil SAE 90 Heavy Duty Gear Lube.** Non-foaming oil specially formulated for transmissions. Sold each.

VT No.

41-0130



**Brake Fluid** in DOT 4 for disc or drum, or DOT 5 for special requirements. Sold each.

VT No.

Size

41-0142

12 oz.

41-0194

12 oz.

Type

DOT 4

DOT 5

## Motor Oil



**Spectro Oils.** Special Blend in Premium or Golden synthetic blends, sold in quarts by case which is 12 or as each.



VT No.	Type	Blend	U/M
41-0108	70 wt	Premium	12
41-0114	60 wt	Premium	12
41-0115	50 wt	Premium	12
41-0109	20-50 wt	Premium	12
41-0155	20-50 wt	Synthetic Blend	12
41-0189	20-50 wt	Full Synthetic	12
41-0156	Primary	Big Twin for Wet Clutch 1984-up 5-Speed,	12
41-0160	Synthetic Trans	75W-140 GL-1	1
	Transmission	5 Speed Big Twin	1
41-0186	85W140	Premium Transmission Lube	12
41-0193	75W140	Platinum 6-Speed Transmission Lube	12
41-0195	75W140 GL-1	Sportster Trans/Primary Lube Platinum STL	1
41-0157	20 wt Fork Oil	Type E	12
41-0158	40 wt Fork Oil	Heavy	12
41-0194	DOT 5	Golden	



**Screamin' Eagle Synthetic 20W50 Lubricant** can be used in engine, transmission and primary chain case on all Evolution, Big Twin, Twin Cam and Evolution XL models. Quart bottles, case of 12.

VT No. 41-0188



VT No.

Fits

41-0050

1984-88 FXST, 1980-98 FLT,

1982-94 FXR,

1984-up XL

41-0051

1991-98 Dynaglide

41-0052

1999-up All TC-88 Big Twins

## Tools



**Jims Engine Dipstick Socket** for FLT or FXD models. Allows easy removal of to hot exhaust pipe. Features 3/8" ratchet drive hole, 7/8" hex for wrench fitment and a cutout for clearance around exhaust pipe. Use on all 2007-up FLT models and 2006-up FXD models.

VT No. 16-2759



**Oil Fill Primary Funnel** allows the oil to be added to the primary cover with no mess or spills. This funnel snaps into the bottom of the derby cover hole.

VT No.

Fits

16-1059

1999-up Big Twins



**Oil Catcher Pan** is used when removing oil filter to avoid spilling oil onto engine cases. 12" tube directs oil flow into oil drain pan. Use on all 2009-up FXD, FLT and 2004-up XL.

VT No. 16-0094



**Slim Design Oil Filter Wrench** features a slim 14 flute design to fit most filters, and 3/8 ratchet drive hole and slim design that allows more clearance for oil filter removal especially oil coolers and crank position sensors.

VT No. 16-1941



**Oil Filter Wrench** fits all spin on filters. 3/8" drive. Fits all models and TC-88.

VT No. 16-0743



**Oil Drain Spigot** fits 2009-up Touring.

VT No. 16-0096



**Oil Filter Wrench Pliers** fits all 60-90mm diameter filter. Features rubber coated handles and serrated jaws for better gripping. Removes stuck on oil filters easily.

VT No. 16-1125



**Oil Drain Reservoir.** 2.5 gallon. Low profile fits under frames on Softail and FLT models.

VT No. 16-0585



# Sealant



## Thread Lockers and Repair by Loctite.

VT No.	Item/Size
41-2710	271 Red threadlocker High Strength, 6 ml.
41-2900	290 Green threadlocker Med Strength, 6 ml.
41-2420	242 Blue threadlocker Med Strength, 6 ml.
41-5921	Pipe Sealant with Teflon, 6 ml.
41-8166	Form-A-Thread for stripped threads, .44 oz.
41-1202	Tank Repair Flexible Ribbon Seals, .25 oz.



**Kreem Sealer and Kits.** Pint can of tank sealer, producing tank within a tank, stopping leaks and corrosion. Prep cleaner and conditioner sold as kit or as 3 piece combination kit.

VT No.	Item
41-0110	Kreem Sealer
41-0112	Prep
41-0113	Kit
41-0180	Tank Degreaser
41-0181	Tank Surface Mask
41-0163	Blue Shield Exhaust coating, Pint



## Gasket Related Materials by Permatex.

VT No.	Item/Size
41-8116	Hi-Temp RTV Silicone Permatex, 3 oz.
41-8001	Form-a-gasket No. 2 Sealant, 3 oz.
41-8006	Hi-Tach Spray-A-Gasket Sealant, 6 oz.
41-8005	Clear Silicone Adhesive Sealant, 3 oz.
41-8003	Valve Grinding Compound, 1.5 oz.
41-8195	Ultra Slick Engine Assy Lube, 4 oz.
41-8034	White Lithium Grease, 1.5 oz.
41-2510	Fast Orange Hand Cleaner Pumice, 7.5 oz
41-0038	Prussian Blue



**Gasoila Sealant** available in hard setting red varnish or soft set blue/white with teflon. Red Sealant is the original sealer for inside crank cases or cam covers for sealing pin holes on porous surfaces. Blue/White seals threaded joints on pipe threads and fittings. Both types are insoluble in oil, gas and solvents. The 1/4 pint can includes brush, each.

VT No.	Item
41-0151	Red Varnish
41-0152	Blue/White soft set



**Gasgacinch Gasket Sealer** in a 4 oz can sold each.

VT No. 41-0168



**GE Red Hi-Temp Silicone** 2.8oz tube.  
VT No. 41-0182





**Handy B.O.B. Motorcycle Air Lift** features drop out rear panel, 1500 capacity, foot pedal operation and a 40" max lift height. Requires 90-100 psi of air for operation. Includes wheel vise.

VT No.	Item
16-1985	Lift
16-1984	13" Front Extension



**Handy Airlifts** requires full payment before shipment. We then ship prepaid freight charges to your address. Lift uses 100lbs. of air to operate.



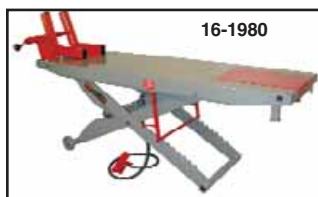
**Tie Downs** are 1" x 5'6" in length, 1600 lb strength, 2 per set. Tie downs assist is pair of 12" black nylon straps which acts as cinch around part of the cycle first, then hook tie down to the other end of the loop, to prevent scratching.

VT No.	Item	Brand
48-0180	Tie Downs	V-Twin
48-0650	Tie Down Assist	Wright



**Lean-Right Service Tool** is designed so that any XL can be leaned over on either the right or the left side by hooking tool to bottom frame rail. Features a rubberized coating to prevent scratching of frame.

VT No. 16-0553



**S.A.M. 1000 Air Lift** features 1000 lb lifting capacity, 84" table length, maximum work height of 30". Drop out rear panel and requires 90-100 PSI of air to operate. Includes wheel clamp.

VT No.	Item
16-1980	S.A.M. 1000 Lift
16-1982	Wheel Clamp



**Handy Motorcycle Air Lift** is designed for all shops. Ideal for raising up to 1000 pounds to 31" level for working on an infinite number of products. The Handy Air Lift is powered by a rugged pneumatic cylinder from your air source and allows operator to set up for up and down with automatic limit shut off. Packed in a 7" high package, when lift is in down position, for ease of on and off loading of machine. Cycle Vise wheel clamp fixture also included.

VT No.	Item	Height	Down	7"
16-1990	Air Lift with Clamp		Raised	31"
16-1991	Wheel Clamp	Length	Table Ramp	80"
16-1986	13" Front Extension.	Width	Table	24"



**Mini-Lift** use with table lift to raise bike while on table with 3" to 12" range 600lbs.

VT No.	Item
16-0211	Mini Lift
16-1907	Extender



# Motor and Transmission Work Stand



16-0507



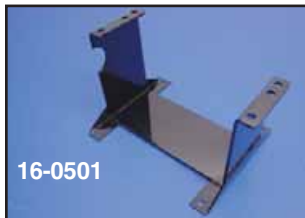
16-0509



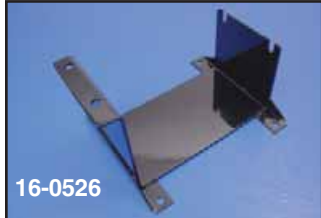
16-0506



16-0504



16-0501



16-0526



16-1285



16-1285

## Motor Stands

VT No.	Type
16-0507	1952-03 XL
16-0509	Big Twin Engine, Heavy
16-0501	Big Twin Engine, Standard
16-0526	TC-88 Engine
16-1285	45 Side Valve



Note: Motor installed.

**Motor Stand** with motor base fits 1936-99 Big Twin and 1999-up TC-88 solid mount engines. Will mount to most universal engine dollies which are available at most automotive outlets. Auto engine stand not included.

VT No. 16-0543



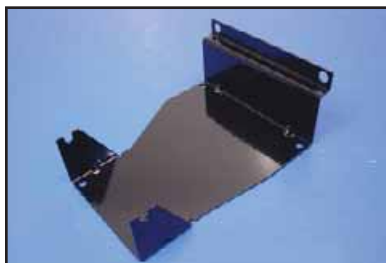
**Transmission Stands** are welded steel for shop use.

VT No.	Type
16-0506	4 Speed Transmission, Vise Mount
16-0504	5-Speed Rubber Mount



**Transmission Repair Fixture** is a four position mount carriage in which a retractable pin allows transmission to be positioned in horizontal 45° right or left or full vertical. This will assist in loading gear-shaft groups or kick cover assemblies. Includes tab to affix chain for locking 4th gear main drive nut. Fits 4 or 5 speed cases.

VT No. 16-0508



## TC Beta Engine Stand

- Powder coated steel.
- Clears the rear balancer housing of the Beta style TC case.

VT No. 16-1273



35-0446



14-0586

**EFI Check Valve Rebuild Kit** for all EFI model Twin eliminates the need to replace the check valve and fuel line when only an o-ring is needed.

VT No.	Item
35-0446	Rebuild Kit
14-0586	Check Valve O-Rings only
16-0592	Installation Tool



## Wheel Chock



**Pingel® Wheel Chock** features quick mounting and removal by sliding in and out of slotted mount pads. Chock is a chrome steel tube. Mounting kit also available separately. The appearance of the Wheel Chock including the cross brace is a trademark of Pingel Enterprises. The brackets used in the Wheel Chock are patented.

VT No.	Item
16-1501	Chock with mounts, 16", 18" or 19" wheels
16-1503	Chock with mounts, 21" wheel
16-1502	Mount Kit



**Chrome Wheel Chock** will accommodate tires up to 5.5" wide with mounting kit included.

VT No. 16-2525



**VO Scope Tool** allow the technician the ability to inside mot any hole that is larger than a 1/4". This is a live remote video with the following features high resolution, auto focus, color camera and 2 1/2" full color viewing monitor. Equipped with a sealed, fluid proof, flexible 24" long 6mm diameter cable, high output LED illumination with dimming control. A mirror used to see 90 degrees and a magnet for picking up steel parts weighing less than 1/4 lb. Used for checking inside cylinders, cylinder heads, etc.

VT No 16-0385

## Air Blaster



**Metro Air Force Blaster** the fastest easiest way to dry a bike. Features rugged all steel construction, 4.0 peak HP motor (29,000FPM), 10 foot hose and four interchangeable attachments. Blows clean filtered air.

VT No. 16-1879



**Blaster Sidekick Dryer.** A compact powerful handheld dryer that weighs approximately 3 lbs. and includes a 12' power cord, rubber neoprene nozzle and air flare attachment.

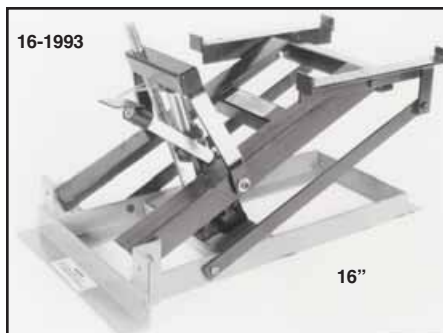
VT No. 16-1880

## V-Lift



24"

16-2008



16-1993

16"

**Standard V-Lifts** include a jack which features a foot operated pump and release mechanism. Both units include a stay bar to keep lift in full up position when in use. Units are 4 1/2" in their unextended height. Lift top is compatible with 1936-99 Big Twin frames FXST-FLT-FLST-FLH. The FXR, Sportster and Dyna models require adapters as noted.

VT No.	Height	Jack
16-1993	16"	4 ton
16-2008	24"	6 ton

**Jack Replacement.**

16-2007	6 Ton
16-2006	4 Ton

**Lift Adapters** fit all V-Lifts and Moto Shop models. FXR-FXD models can be lifted with the kickstand in the retracted position.

VT No.	Fits
16-2015	FXD-FXR, 1982-98
16-2028	FXD, 1999-up

*All C-G lifts are manufactured in the USA using structural steels that exceed the lifting requirements. The lift mechanism keeps the motorcycle in a vertical position relative to the lifting platform during the entire lifting range. For the safe operation of the lifts, the manufacturer recommends the use of tie downs on all models equipped with eyebolts and installation of hairpin cotter as supplied in safety bar when lift is in use.*



# Flywheel Tool



**Original Style Factory Type Crank Truing Machine** features cast iron construction. Designed to true stock style flywheels. 10" swing right side, 6" swing left side, 18" maximum center to center. Weighs over 80 pounds.  
VT No. 16-0586



**Flywheel Rebuilding Fixture.** Allows servicing and disassembly of flywheels in a standard shop vise. Holds unit from turning when tightening nuts, when installing or removing sprocket and pinion shafts.  
VT No. 16-1002



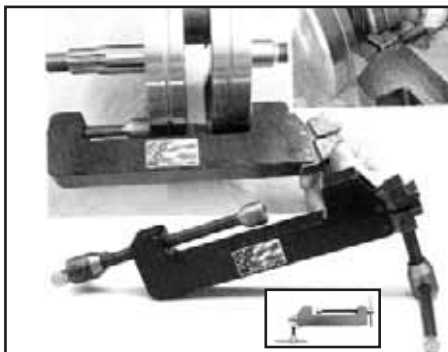
**Sprocket Shaft/Flywheel Holder** used to hold flywheel assembly in vise with or without left case attached. Can also be used to check case clearance on stroker flywheels. Use on all TC-88, 2006-up FXD's, 2007-up FL's and FXST's.  
VT No. 16-0326



**Jims Flywheel Runout Inspection Gauge** allows engine builder to check flywheel runout of the pinion shaft while assembled in engine case. Also allows the checking of gear lash on gear driven cams on Twin Cam engines. Gauge fits 1970-84 FL, 1971-84 FX, 1984-up FXST, 1986-up FLST, 1991-up FXD, 1979-up FLT, 1982-94 FXR.  
VT No. 16-0383



**Flywheel Truing Hammer** is a three pound zinc aluminum that lasts longer than a lead hammer and is still soft enough so that it will not mar flywheels.  
VT No. 16-1020



**Flywheel Truing Tool** to fine tune flywheel assemblies when truing. This tool features both a flywheel expander, and contractor in one easy to use package. Use on all tapered shaft flywheel assemblies.  
VT No. 16-0325



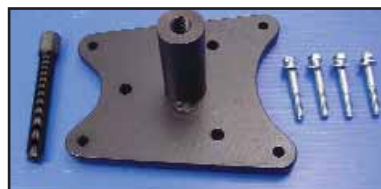
**1930-54 Big Twin Flywheel End Play Gauge.**  
VT No. 16-0131



**Jims Top Center Oversize Case Bolt and Spot Facer Tool.** Required when any Twin Cam case spigot hole is enlarged for Big Bore Cylinders Tool is need to spot face the right case so that bolt head will seat flat on the case surface.  
VT No. 16-0380 Oversize Case Bolt  
16-0381 Spot Face Tool



**Jims Twin Cam Flywheel Locking and Decommissioned Tool** locks the flywheel in place making service procedures easier. This tool is very visible and useful to designate a bike as decommissioned. The bike will not start and clutch must be engaged in order to move bike when this tool is installed. Use on all Twin Cams 1999-up.  
VT No. 16-2753



**Crank Assembly Removal Tool** is used to press flywheels from cases, press cases apart and break sealant bond, for 1955-up Big Twin, by Jims.  
VT No. 16-1839



**Flywheel Nut Sockets** feature a low profile of 1" tall to give 100% nut contact, machined flat at nut receiving end to eliminate rounding off the nut, by Jims.

VT No.	Nut OEM	Fits	Drive
<b>Crank</b>			
16-1809	23966-54A	1954-81 Big Twin	1/2"
16-1810	23969-83	1983-up Big Twin	1/2"
16-1813	23901-81	1981-up XL	1/2"
16-0887	23901-81	1981-up XL	3/4"
<b>Pinion</b>			
16-1811	24017-80	1981-89 Big Twin	1/2"
16-0886	24017-80	1981-89 Big Twin	3/4"
<b>Sprocket</b>			
16-1812	24017-80	1972-up Big Twin	3/4"



**Flywheel Spreader Tool** spreads wheels while truing for Big Twins and XL's.  
VT No. 16-0517



**Jims Case Splitter.** Use this tool to break the case sealant by pushing apart both case halves. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.  
VT No. 16-1354

## For TC-88 B



**Twin Cam Timken® Case Bearing Conversion Tool** is a must for the big cubic inch late model Twin Cam 88" or 96" engine. Utilizing the special Jims precision insert, it is designed to easily and accurately convert the left side crank roller bearing (OEM# 24604-00D) to the more durable Timken Bearing (OEM# 9028). This insert is manufactured from aluminum that is several times stronger than the aluminum case material the standard bearing rides in. The tool includes:

- A new steel bearing insert held under .002" TIR (total indicator reading).
- A press plate that will hold the bearing insert in line with the case bearing bore at the time it is being pressed into case.
- All the necessary drill bits to drill oil feed and return holes, hardware and detailed instructions.

*This job can be performed with normal hand tools, a hand drill and a 2 ton press.*

Use on Twin Cam engines 2003 to the present. Must also use existing Jims Tool (16-0668) for race installation. Order bearing inserts and Timken bearings separately.

VT No.	Item
16-1375	Tool
16-1379	Bearing Insert
60-0181	Motor Shop Service to Machining Crankcase for above Insert requires work order number contract service dept





# Piston Pin Tool



**Wrist Pin Bushing Reamer** for 1973-99 late size Big Twin, 1957-up XL models, TC-88 models. By Jims.

VT No.	Fits
16-0725	1936-99 Big Twin
16-0726	1957-up XL
16-0727	TC-88



## Piston Pin Lock Ring Installer Tools.

VT No.	OEM	Type	Years	Model
16-0142	96780-32A	Split	1932-51	All Models
16-1757	96780-58A	Spiral	1952-73	All Models
16-1831	96781-72	Spiral	1973-77	All Models
16-0987	22582-52	Ring	1984-up	Evolution All



16-0181

**Rod Clamping Tool** allows rod to be held for straightening or to replace wrist pin bushing. **Bushing Piston Pin Tool** will remove and install bronze bushing.

VT No.	OEM	Tool	Brand
16-0029	95952-33	Clamping Tool	V-Twin
16-0152	95970-32	Bushing Tool	Jims
16-0154	95970-32	Bushing Tool	V-Twin
16-0181	—	Bushing Tool	V-Twin

**Jim Piston Ring End Gap Tool** makes measuring ring end gap faster, more accurate and eliminates guess work. The flanged design that allows the piston ring to fit squarely in the cylinder bore every time. This is the first tool that is designed to test oil ring gaps by propriety cutout feature. Just install any ring, top, 2nd, or oil control rails on the the tool. Install tool into a cylinder bore and then view the ring end gap in the "Key Slot". Use a feeler gauge to get your end gap measurement. Each side of the tool is made for checking standard size piston rings. Fits Twin Cam standard size pistons for 95", 103" or 110" with 3.875" or 4.00" bore.

VT No. 16-3200

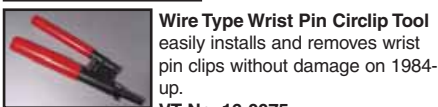


**Jims Rod Race Press Tool** for easy installation or extraction of rod races makes it easy to support without bending rods for 74's and Sportsters.

VT No. 16-1838

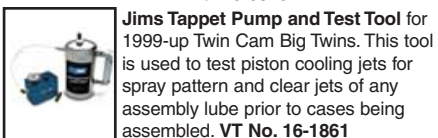


**Motion-Pro Shop Piston Pin Press Tool.**  
VT No. 16-1737



**Wire Type Wrist Pin Circlip Tool** easily installs and removes wrist pin clips without damage on 1984-up.

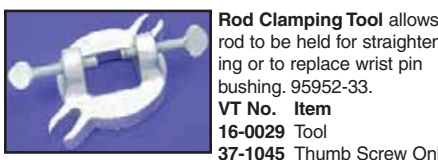
VT No. 16-0075



**Jims Tappet Pump and Test Tool** for 1999-up Twin Cam Big Twins. This tool is used to test piston cooling jets for spray pattern and clear jets of any assembly lube prior to cases being assembled.

VT No. 16-1861

# Rod Tool



**Rod Clamping Tool** allows rod to be held for straightening or to replace wrist pin bushing. 95952-33.

VT No.	Item
16-0029	Tool
37-1045	Thumb Screw Only



**Jims Timken Bearing Race Installer** is used to press race in straight in left crank case for 1969-up Big Twin, 1977-up XL's.

VT No. 16-0668



**Jims TC-88 Connecting Rod Bushing Tool** use to remove and replace wrist pin bushing without removing connecting rods from crankcase.

VT No. 16-1051



**Jims TC-88 Wrist Pin Remover** allows easy removal of wrist pins on all TC-88.

VT No. 16-1276

# Oil Pump

**Sifton Oil Pump Check Ball Reseater** will recut the seat to allow the ball to sit properly to prevent sumping for Big Twin and XL aluminum and cast iron pumps.

VT No. 16-0519



**Oil Pressure Switch Wrench** installs and removes oil pressure switches without damage to the switch, the extension handle is not used when servicing Sportsters used on 1340cc Evolution, and late 1983-84. Sportster replaces 34816.

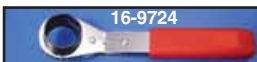
VT No. 16-0990

**Oil Pump Snap Ring Installer** makes it easy to install outer snap ring on oil pump shaft, without stretching the ring. Just apply oil to ring expander, holder up to the big end of ring expander, hold up to the end of the shaft, then push ring onto the shaft with sleeve. Use on Big Twin Oil Pumps.

VT No. 16-0889

**Oil Pump Seal Installer** easily installs oil pump seal perfectly below gear surface for no leak fit.

VT No. 16-0890



**Oil Pressure Sending Unit Wrenches.** These reversible ratcheting wrenches are used to install and remove oil pressure indicator lamp or gauge sending unit on all FL Touring models 1999-up.

VT No.	Year
16-9723	1999-up
16-9724	1984-98



**Tappet Oil Screen Plug Tool.** Wide slot type to remove stock slotted plug without removing exhaust pipes.

VT No.	Brand
16-0875	V-Twin
16-0665	Jims



**Oil Pump Drill Jig** replaces 94461-81 for installation of factory type updated pump VT No. 12-9900 on 1973-78 crank cases.

VT No. 16-1843



**Oil Pump Drill Fixture** allows drilling of cases to accept late model stock or S&S oil pumps.

VT No. 16-0986



# Crankshaft Installer



16-0065



16-0058

**Sprocket Shaft Bearing Removal and Installation Tool.** Removes and installs engine sprocket shaft bearings from crankcase. Use with 33416 driver handle. Replaces 94547-80. 2 part set, 4 halves.

VT No.	Item
16-0058	2 Part Set
16-0065	Driver



16-0138



16-0045



16-0046

**Bearing Race Press Plug** is used to remove and install Timken bearing outer race.

VT No.	Fits
16-0138	1955-up Big Twin, (97194-57)
16-0045	1957-76 XL
16-0046	1977-up XL



16-0140



16-1836



16-0149



16-1056

**Sprocket Shaft Timken Bearing Installer Tool.**

VT No.	Jims	OEM	Year/Model
16-0140	—	97225-55	1955-up Big Twin
16-1836	As Above	As Above	Jims
16-0149	—	97081-54	1954-76 Sportster
—	16-1837	As Above	Jims
—	16-1056	42579	1977-up XL
—	16-1760*	2.500 Long	1977-up XL
—	16-1761*	2.060 Long	1977-up XL

\*Note: Sold separately for 1977-up use with 16-0149 and 16-1837.



16-1758

**Sprocket Shaft Timken Bearing Inner Race Puller.**  
VT No. 16-1758 Model 1952-76 XL's



16-0667



16-1833



16-1834



16-0704



**Timken Bearing Removers** remove bearing from shaft without removing shaft from flywheels.

VT No.	Fits
16-0667	1957-76 XL
16-1833	1977-up XL
16-1834	1955-85 Big Twin
16-0704	1986-up Big Twin



16-0661



16-0664

**Sprocket Shaft Seal Installer** use this kit to install sprocket shaft seal to proper depth, and for holding the seal perfectly square, for a no leak fit. Driver sold separately, order 16-0664.

VT No.	Use
16-0661	1995-up Sportster and Buell®
16-0664	Driver Set



**Timken Bearing Simulator** allows quick and easy removal and replacement of flywheel assembly in the left crankcase when checking clearances before the final assembly. Constructed of Delrin plastic.  
VT No. 16-0706



**Sprocket Shaft Holder** will hold the flywheel in vise, without left case attached. Use on Big Twin 1955-up. By Jims.  
VT No. 16-0683



**Crank Pin Nut Clearance Gauge.**  
VT No. 16-1855 Year 1937-57  
16-1866 1958-up



16-1796



16-1795

**Main Bearing End Plug Tool** allows the setting of proper end play in Big Twin Timken Bearing Assemblies by selection of proper spacer from the catalog. Use when refitting bearings or bearing sets on late models when spacers are not included. Not needed for our VT No. 12-0309 or 12-0310 Timken sets, these are pre-spaced from the factory.

VT No.	Fits
16-1795	Big Twins
16-1796	1977-up XL's



**Sprocket Shaft Bearing & Seal Installation Tool Adapter** upgrades Jims bearing installer tool (VT No. 16-1353) for work on fine-splined Twin Cam sprocket shafts. Allows for installation of Timken bearing (OEM# 8028) & roller bearing race assembly (OEM#24004-03) onto the sprocket shaft. For Dynaglide; all 2007 Big Twin.

VT No. 16-1364



**Jims Crankshaft Bushing Remover/Installer** will facilitate removal and installation of bushing in cam support plate on TC-88 model engines.

VT No. 16-0791



**1990-up Big Twin Snap Ring Remover** will remove the Timken Bearing outer race snap ring without damage to the case.  
VT No. 16-0705

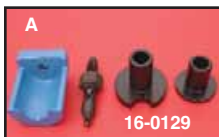


**Balancer Shaft Bearing Service Tool** use to remove and install bearing fits 2000-up Twin Cam Engines.  
VT No. 16-1915





**Big Twin Pinion Bearing Race Removal and Installation Tool** is used to remove and install the outer race on 1958 and later models replaces 39958.  
VT No. 16-0648



**Pinion Gear Puller** with collars, used to remove and install pinion gear on all Big Twins, and 1976 and earlier XL. Order nut wrench separately.

VT No.	Brand	#	Item
16-0129	VT	A	Puller Kit
16-0162	Jims	B	Puller Kit
16-1060	Sifton	B	Puller Kit
16-0406	VT	C	Collar Set
16-0141	VT	D	Nut Wrench
16-0168	Jims	D	Nut Wrench



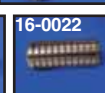
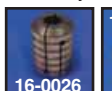
**Rod Lapping Tool** includes arbor assembly 1.500 lap for 45", Indian and some case races, 1.625 lap for Big Twin, Sportster and K Model rods.

VT No.	Item
16-0027	Rod Tool
16-0012	Spanner Wrench



**1958-up Big Twin Case Lap Tool** features a lap which is supported on both sides by a pilot on the bushing side and plate which locates on the case pins of the cam cover, by Jims. Order lap and pilot VT No. 16-0881 for 1937-early 77 4-speed main race separately.

VT No.	Item
16-1835	Big Twin Case Lap Tool
16-0893	Case Lap Head only
16-0892	4-Speed Lap Head only



**Replacement Lapheads** are sold each. For Eastern tool only.

Laphead	Pilot#	Type	Fits
16-0032	1 3/4"	Engine	1958-up Big Twin
16-0026	1 1/2"	Engine	1940-54 Big Twin
16-0025	1 3/8"	Engine	1954-76 Sportster
			1955-57 Big Twin
			1929-73 45"
16-0018	1.562"	Engine	1987-up Sportster
16-0034	1.870"	Transmission	1936-77 Big Twin
16-0024	1.300"	Transmission	Sportster
16-0022	1 5/8"	Rod	Big Twin XL
16-0021	1 1/2"	Rod	45"



16-1053

**Crankshaft Locking Tool** locks all Big Twin crankshafts by engaging the pinion shaft splines. This allows removal and torquing of the pinion nut during installation. Replaces 41492-A.

VT No.	Year
16-1053	1991-2002
16-1672	2003-up



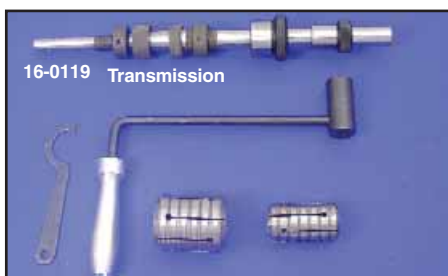
**1991-99 Crankshaft Locking Tool** fits XL models by engaging the pinion shaft splines. This allows removal and torquing of the pinion nut during installation. Replaces 41506.

VT No. 16-1055



**Pinion Gear Lock Tool** fits 1954-up Big Twin, when applying torque to pinion nut. By Jims.

VT No. 16-0659



**Lapping Tools** used for precision alignment of engine and transmission shafts. Engine unit replaces 96710-40 to lap right and left crankcase races for oversized bearings. Transmission tool insures proper fitting of oversized rollers with mainshaft races on Big Twin and Sportsters. The dual-purpose "Combo Lap" for both engine and transmission is also available. Rod laps not included.

VT No.	#	Use	Model	Years
16-0135	C	Engine	Big Twin	1936-up
16-0119	B	Trans.	Big Twin XL	1936-77
				1952-83
16-0039	A	Combo	C and B	As Above
16-0012	All			Spanner Wrench

## Pinion Tool



**Jims Sportster Crankshaft Locking Tool.** Use on Pinion side of all 1991-up XL to keep crankshaft assembly from rotating during assembly on valve train repair.

VT No.	Fits
16-1666	1991-2002
16-1665	2003-up



**Pinion Shaft Race Installer** fits 1977-E81 Sportster models. Replaces 97080-77A  
VT No. 16-0965



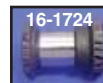
**Jims TC-88 Crankshaft Guide** use to spread pinion bearing rollers while reassembling right side engine case on to flywheel assembly.  
VT No. 16-1281

## Lapping Tool



**Transmission Lap Head** includes pilot. For Eastern tool only.

VT No.	Size	Model
16-0020	1.870	Big Twin 74 and 80
16-0019	1.300	1957-85 Sportster



**Lap Head Pilots**, sold each. For Eastern tool only.

VT No.	OEM	Type	Years
16-1724	96727-56	Motor	1955-up Big Twin
16-1725	96728-56	Motor	1954-76 XL
16-1726	96715-40	1 1/2 Motor	1930-54 Big Twin
16-1727	96716-40	Motor	1955-57 45", Big Twin
			1987-up XL

16-1832 Motor



# Sprocket Shaft Tool



16-0153



16-0888



16-1754

**Sprocket Shaft Seal and Lock Installers for Big Twins.**

VT No.	OEM	Years	Application
16-0153	97235-55B	1955-69	Installs Nut and Seal
16-0888	97235-55B	1955-69	As Above, Jims
16-1754*	39361-69	1970-up	Installs seal only, Jims

\*Note: Use with 16-0140 or 16-1836 to install seal.



**Jims Twin Cam Case Support Block for Balancer.**

Engine 2000-up. These blocks properly support the case on a level plane when using a press for work.

VT No. 16-1916



**1955-up Sprocket Shaft Hard Cap** protects shaft when using press. By Jims.  
VT No. 16-0666



**Crankshaft Stabilizer Bracket** acts as third hand. Sliding over crank splines, and bolting to a primary mount hole prevents crank from turning while installing pistons, cylinders or rings.  
VT No 16-5051



**Twin Cam 24 Tooth Crankshaft Rotating Wrench** for use on all 2006-up

Big Twins with 24T spline sprocket shaft to check engine timing and parts clearance.

VT No. 16-9280



**Compensating Sprocket Wrench** to install or remove compensating sprockets. Replaces 94557-55 for 1955-69.

VT No.	Item
16-0130	Flat Type
16-0883	1/2" Drive Type, Jims



16-0150



16-1850



**Shaft Turning Tool** fits spline or taper on assembled motor and allows engine to be turned over by 1/2" ratchet or impact driver. Sifton unless noted.

VT No.	Years	Type
16-0150	1930-54	Big Twin, Taper
16-1850*	1955-06	Big Twin, Spline
16-1378*	2006-up	FXD, 2007-up FL, FXST
16-1852	1957-up	XL, Spline

\*Note: Jims



**Jims Balancer Shaft Inner Bearing Remover and Installer Tool** for all 2000-up Twin Cams. This tool will accurately remove and install the inner balancer bearing mounted in the left case.

VT No. 16-1915

## Balance Tool



**Balancer Shaft Removal Tool** designed to remove both front and rear counter-balancer shaft bearing assembly, from the left engine case on the new 96" and 110" Beta engines.

VT No. 16-1374



**Outer Balancer Bearing Installer and Remover Tool** removes and installs the outboard balancer bearing on the new 96" and 110" "B" Softail engines chain guide support plate.

VT No. 16-1376



**Balancer Shaft Inner and Outer Bearing Remover and Installer** for TC-88B models 2000-up includes thrust bearing. Replaces 44066.

VT No. 16-0540



**Balancer Shaft Retention Pin** use this tool to secure the engine balancers on TC-88B engines when servicing flywheel assembly. This tool locks into the balancers sprocket pin holes to prevent the balancer from turning out of sync with flywheel.

VT No. 16-1163



**Jims TC-88 Balancer Shaft Alignment Tool** use for correct balancer drive assembly. Use on all 2000-up TC-88B models.

VT No. 16-1166



**Balancing Shaft and Bearing Installer Tool** designed to align and safely install a new balancer bearing and counter balancer shaft into the new Twin Cam 96" or 110" "B" Softail engine case. For removal of balancer shaft from the engine case use Jims tool No. 960.

VT No. 16-1377





# Cam Tool



16-1282

**Jims Cam Gear Remover and Alignment Tools.** The alignment tool is designed to index the cam gears position while removing or installing the cam gear. This tool will allow you to accurately position and or reposition the cam gear from one camshaft to another, as well as allowing you to retard or advance the gear position by up to 10 degrees with the accuracy of a 1/4 degree. The cam gear remover tool is used to remove the cam gear from the camshaft. This tool acts as stable base to keep the camshaft perpendicular to the press.

**VT No. Item**  
**16-1282** Alignment Tool  
**16-1283** Remover Tool



**Evolution Camshaft Gear Alignment Tool** is used for degreasing camshaft to stock specification. Tool locks the radial position of the gear and camshaft together and allows the gear to be more easily and accurately pressed onto the camshaft.  
**VT No. 16-0485**



**Cam End Play Checker** includes dial indicator for 1970-up models.  
**VT No. 16-0572**



**Jims Big Twin Breather Chamber Reaming Tool** will size the hole to .030 so the oversize breather can be used for 1936-up models.  
**VT No. 16-0695**



**Trock Cam Jack** allows raising of cam shaft on 1970-up Big Twin models when cam cover is removed to change pinion gear or check clearances.  
**VT No. 16-0658**



**Jims Cam Locking Tool** allows removal and torquing of cam sprocket bolts by locking camshaft and crankshaft sprockets. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.  
**VT No. 16-1352**



**Jims Inner Cam Bearing Remover Tool** allows removal of needle bearing and will also keep needles from falling into engine. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.  
**VT No. 16-1351**



16-0684

**Cam Bearing Gauge** is a Go-No-Go gauge to check if the cam is too tight or too loose in the 9058 Torrington Bearing on 1958-up Big Twins. Set of 2.  
**VT No. 16-0684**



**Cam Gear Check Pins** measure precise fit for selection. Sold in pairs.  
**VT No. Size**  
**16-1749** .105  
**16-1750** .108



**Cam Clearance Cutter** bolts to 1970-up Big Twin cases and features an adjustable cutter and threaded depth feed. Power by 1/2" drill or use in milling machine.

**VT No. Item**  
**16-0879** Cutter 1970-99  
**16-0915** Cutter TC-88  
**16-0880** Bit



**Evolution XL Cam Relief Tool** allows the installation of high lift cams in 5-Speed XL models by removing some of case material at the base of the lifter bores and around the pinion bearing for lobe swing clearance. This tool cuts clearance quickly and can be performed on an assembled engine in the frame.  
**VT No. 16-0353**



A



B



16-0660

**Cam Bearing Tools** (A) will remove the 9058 Big Twin Torrington Bearing, (B) fastens to cam cover mount holes and will install new bearing.

VT No.	Item	Brand	Type
16-1827	Puller	Trock	A
16-0629	Installer	Trock	B
16-0660	Installer	Jims	



16-1821



16-1840

**Cam Bearing Puller Tool** removes inner cam bearing (Torrington type) without splitting cases while preventing rollers from coming out during removal. Not for Twin Cams.

VT No.	Fits
16-1821	1958-99 Big Twins
16-1840	1957-up XL



16-0126



16-1841



16-0127



16-1857



16-0711

**Cam Shaft Needle Bearings and Bushing Tool.** Rods install needle bearings without damage. Bushing tool positions pinion bushing in cam cover on all 1970-up Big Twin to correct depth.

VT No.	OEM	Model	Brand
16-0126	97272-60	Big Twin Needle	Sifton
16-1841	97272-60	Big Twin Needle	Jims
16-0127	97273-60	XL Needle	Sifton
16-1857	97273-60	XL Needle	Jims
16-0711	—	Big Twin Bushing	Sifton



# Cam Bushing



16-1780



16-1820



16-1814



16-1817



16-1818



16-1819

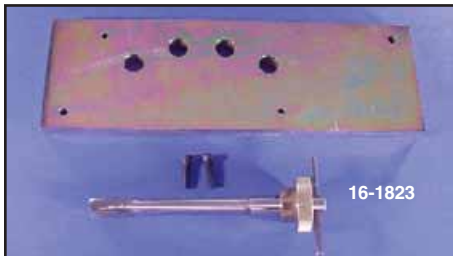
**Cam and Pinion Bushing Drill Jigs** allow the installation and drilling of a dowel pin to factory location supplied with #31 drill by Jims.

## Cam Bushing Drill Jigs

VT No.	Year	Models
16-1814	1936-69	Big Twin
16-1779	1970-99	Big Twin
16-1818	1954-up	XL

## Pinion Bushing Drill Jigs

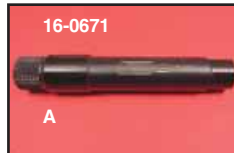
VT No.	Fits	
16-1820	1936-53	Big Twin
16-1780	1954-92	Big Twin
16-1817	1937-73	45"
16-1819	1937-48	74" and 80" Side Valve



16-1823

**1991-up XL Crankshaft Bushing Plate Pilot and Reamer.** Reams in board camshaft and camshaft crankcase bushing, replaces 38871.

VT No. 16-1823



16-0671

A



16-0669

B

## 1970-up Big Twin Cam Bearing and Bushing

**Alignment Tool** aligns to within .0003" of the center line. Any binding of this tool indicates misalignment of cam cover and or bushing. By Jims.

VT No. 16-0671 (A)

## 1936-69 Cam Cover Bushing Remover Tool

removes bushing in one operation.

VT No. 16-0669 (B)



16-1822

**Pinion Bushing Puller Tool** is used to remove the pinion bushing from the cam cover on 1954-up Big Twins.

VT No. 16-1822



16-0858

**Cam Cover Holding Tool** holds 1970-up Big Twin Covers while removing and installing bushings. Holds cover flat, to avoid scratches.

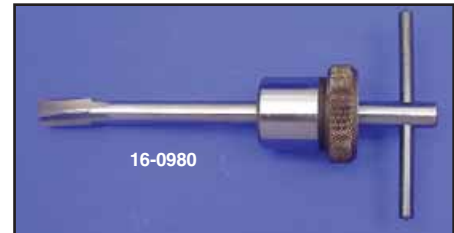
VT No. 16-0858



16-1802

## Jims Cam Bushing Reamer and Fixture Plates

VT No.	Year	Type
16-0697	1970-up	Cam Cover
16-1802	1936-69	Cam Case and Cover



16-0980

**Bushing Reaming Tools** fit pinion bushing in cam cover.

VT No.	OEM	Year	Model
16-0982	94805-80A	1958-up	Big Twin
16-0981	94812-37A	1954-76	XL & 45"
16-0980	94812-80A	1977-85	Sportster
16-0979	94813-80A	1941-54	Big Twin
16-0978	94814-80A	1955-57	Big Twin
16-0962	94812-89	1986-up	Sportster
16-1791	—	1957-up	Sportster
	1-3-4 Cam Cover Bushing		
16-1797	94802-70	1970-up	Big Twin Cam
16-1802	—	1936-69	BT Cam



16-0839

**Cam Cover Puller** easily removes 74 and 80 cam cover on 1970-99 models.

VT No.	Brand
16-0839	Sifton



16-0675

**Big Twin Cam Seal Installer Tool** can be used to remove or install seal and will also remove cover from case. Fits Big Twin, 1970-up.  
VT No. 16-0675



16-0230

**Sifton Cam and Pinion Gear Lash Tool.** The indicator base mounts to the gear cover and the indicator foot mounts directly to the end of the cam. A simple adjustment of the foot and you can see exactly what the gear lash is in .001" increments.

VT No. 16-0230





# Cam Shaft



**Jims Camshaft/Crankshaft Locking Tool** will lock the gear teeth on the TC 88 model engine. Instructions included.  
VT No. 16-0790



**Jims Cam Chain Tensioner Unloader** will hold the tension of the primary cam chain on the TC-88 model engine. Instruction included.  
VT No. 16-0793



**Jims Camshaft Remover and Installer Tool** allows removal and installation of cams in the TC-88 model engine. Tool is used in conjunction with VT No. 16-0793 cam chain tensioner unloader.  
VT No. 16-0792



**Jims TC-88 Camshaft Bearing Tool** designed to remove and replace the right crankcase bearing in and out with no damage to crankcase.  
VT No. 16-1275



**Jims TC-88 Inner Cam Bearing Remover** replaces inner bearing easily without damage to crankcase and also prevents rollers from falling into crankcase. Use on TC-88.  
VT No. 16-1279



**Jims TC-88 Crankshaft Guide** use to spread pinion bearing rollers while reassembling right side engine case on to flywheel assembly.  
VT No. 16-1281



**Jims TC-88 Inner Cam Installer** positions the two inner cam needle bearings and perfectly aligns to the shaft bores for a precision press fit.  
VT No. 16-1278



**Jims Outer Balancer Bearing Installer and Remover Tool.** This tool removes and installs the outboard balancer bearing on 96" and 110" "B" Softail engines 2007-up.  
VT No. 16-0324



**Jims Cam Assembly Tool** for all 2006-up Dyna and 2007-up FXST, FLT models. Used to hold both cams in an upright position while lowering the cam support plate over cam journal.  
VT No. 16-0323



**Jims TC-88 Cam Bearing Puller** used to remove bearing from camshaft, this tool is designed to remove the bearing straight with no slipping or binding. Use on all TC-88.  
VT No. 16-1280



**Jims TC-88 Inner Cam Bearing Tool.** This tool will safely install the inner cam bearing in all 1999-up FXST-FLT and Dynaglide models. Installs bearings to the proper depth in case without damaging bearings.  
VT No. 16-1384

# Cam Tool



**Tune-A-Cam Kit** includes easy to read degree wheel dial indicator, T.D.C. locator, lightweight checking springs and packed in a plastic case. Also checks cam or crank end play, shaft and gear run out.  
VT No. 16-0970



**Crane Cams Installation Tool** comes with easy instructions for the mechanic to install Crane's adjustable pushrods without removing the gas tank or rocker covers. In all FL-FX with adjustable pushrods, the tool makes it easy for cam changes. No removal of pushrods, pushrod covers, tappets or tappet guides. Tappets never have to fall out of the guides while doing cam changes.  
VT No. 16-0030



**S&S Degree Wheel Kit** designed to fit the sprocket shaft of any Big Twin or XL model. Each kit also comes with pointer that is held in place by center crankcase bolt.  
VT No. 16-0909



48-0470 Knuckle Head



48-0030 1340 cc



48-0033 Dual Cam



48-0025 Panhead



48-0044 Shovelhead



48-0048 Shovelhead

Motor Plaques measure 18" x 24" and are made of metal.



# Tappet Tool



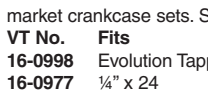
**16-1024**  
**Pushrod Cover Removal Tool** fits TC-88 models.  
VT No. 16-1024



**16-0988**  
**Sifton Valve Lifter Remover** simplifies removal of frozen or loctited hydraulic lifters for Shovelheads. Replaces 97102-81.  
VT No. 16-0988



**16-0998**  
**Sifton Tappet Guide/Oil Pump Alignment Tool.** Use to align tappet guide to engine case on all Evolution 1340 Big Twins and also aligns oil pump on TC-88 Big Twins. Also available in width 1/4 x 24 threads for after market crankcase sets. Sold in pairs.  
VT No. 16-0998



**16-0977**  
**Sifton Tappet Guide/TC-88 Oil Pump Alignment Tool.** Use to align tappet guide to engine case on all Evolution 1340 Big Twins and also aligns oil pump on TC-88 Big Twins. Also available in width 1/4 x 24 threads for after market crankcase sets. Sold in pairs.  
VT No. 16-0977



**16-0874**  
**Sifton Tappet Roller Fixture.** Positions and holds roller and tappet for removal and reassembly for all Big Twins including Evolution. Instructions are included. Punch and drill not supplied.  
VT No. 16-0874



**16-0157**  
**Tappet Guide Puller Tool** for 1957-85 Sportster, replaces 95724-57.  
VT No. 16-0157



**16-0993**  
**Sifton Pushrod Adjustment Gauge** for use on Big Twins 1953-84 with hydraulic lifter. Replaces 91438-79. Complete with instructions.  
VT No. 16-0993



**16-1035**  
**Sifton Magnetic Tappet Lifter** holds tappets up while changing cam on all Evolution or TC-88 Engines.  
VT No. 16-1035

**Jims Twin Cam Oversize Reamer.** Designed to ream the case to fit a +.010 oversize Twin Cam tappet. Includes reamer and two flex hones. Tappet sold separate.

VT No.	Item
16-2789	Tool
16-1811	Tappet



**16-0384**  
**Jims Pushrod Cover Clip Tool** allows installation and removal of pushrod tube clips on all Twins. Made of black delrin. This tool will not slip on main pushrod cover clips.  
VT No. 16-0384

**Jims Tappet Pump and Test Tool** for 1984-up Twins. Allows builder to fill tappet with oil prior to assembly and start up. Also used to diagnose spongy tappets that bleed down. \*Note: Adapter for use with tester on Evolution Style tappets that bleed down.

VT No.	Item	Fits
16-1862	Tester	1999-up Twin Cams
16-1863*	Adapter	1984-98 Big Twins



**16-1728**  
**Sifton Pushrod Cover Compressor Tool** allows removal and installation of pushrod clip.  
VT No. 16-1728



**16-1052**  
**Pushrod Cover Compressor Tool** pushes against top rocker box to allow one hand operation.  
VT No. 16-1052



**16-0819**  
**Sifton Pushrod Adjusting Wrench** eliminates the need for 3 hands, dual wrench holds 2 outer nuts. The inner is tightened with a separate wrench, fits 7/16" hex nuts and is fully adjustable for solid tappets.  
VT No. 16-0819

## Early Tool



**16-1735**  
**Tappet Guide Puller Tools.**

VT No.	OEM	Fits
16-1735*	11906-38	1930-73 45 Side Valve, 1930-40 Big Twin Side Valve
16-1787	11906-38	1941-48 Big Twin Side Valve

\*Note: Use on all Flatheads with screw type valve covers.



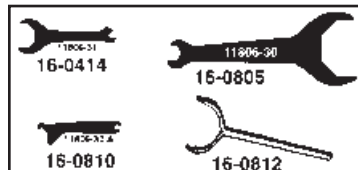
**16-0615**  
**Gas Valve Shut Off Tool** replaces 96365-42 to correct alignment of bottom and top holes of 1940-65 gas tanks.  
VT No. 16-0615



**16-1362**  
**Gasket Locator Tool (3 Piece Set)** will align primary, cam and transmission end cover gaskets, to prevent misalignment and oil leaks.  
VT No. 16-1362



**16-0638**  
**Generator Gear Puller** Center Cap use with claw type pullers. OEM# 95636-46.  
VT No. 16-0638



**Valve Cover Wrenches.**

VT No.	OEM	Type	Years	Model
16-0414	11806-31	Lower, Nut	1929-73	45
16-0805	11806-30	Upper, Nut	1930-38	74 and 80
16-0810	11806-30A	Lower, Hook	1930-38	74 and 80
16-0812	11959-39	Clip Type	1939-48	74 and 80
16-0345	Set	U and L	1930-38	74 and 80

**Kit Tools Sold Separately.**

VT No.	OEM	Use
16-0804	11929-39	45" Tappet and Spark Plug
16-0806	11904X	Tappet Wrench, pair
16-0816	12051-30	74 Axle Sleeve
16-0818	11814-35	45" Axle Sleeve
16-0817	11815-26	5/8" x 11/16" All Purpose
16-0808	11804X	9/16" x 1/2" All Purpose
16-0822	11814-26	45" Rear Axle
16-0814	94426-78	1 1/16" Rear Axle
16-0815	94427-78	1 5/16" Front Axle
16-0813	94428-78	3/4" Wrench
16-1286		Spark Plug



**16-0812**  
Adjust tappets so that there is .004" to .005" clearance between intake valve stems and tappets, and .007" to .008" clearance between exhaust valve stems and tappets.





**Jims Fuel Pump Retainer Remover Tool.** Safely removes the retaining ring holding the fuel pump inside gas tank on all 2008-up FLT models. Use for quick and easy service of fuel filter and other fuel related parts.  
**VT No. 16-0316**



## Tool for EFI & Carburetor

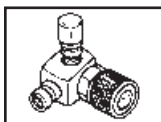
**Jims Fuel Pressure Test Gauge Tool** includes all the necessary hose connections and fittings to safely perform a fuel pressure test on all 2002-up FLT, 2004-up FXD and 2001-up FXST with fuel injection.  
**VT No. 16-0317**



**ThunderJet™ Installation Fixtures** facilitate Thunder-Jet™ installations in S&S and Keihin CV carburetors. Designed to hold the carburetor for precise locating of the

ThunderJet's™ components. Fixture for S&S carburetors can be clamped or bolted to mill table; float bowl and carb body bolt to it at correct angles for machining. CV fixture can be clamped in a vise; it has drill guide bushings for use with a hand drill motor.

**VT No. Fits**  
**16-0783** Keihin CV  
**16-0784** Jet Tool, All



**Fuel Pressure Gauge Adapter.** Two adapters must be used to check fuel pressure on 2001 and later Softail models. Replaces 44061.

**VT No. 16-1289**



**Fuel Pressure Check GaugeTool** provides simple, fast, and accurate fuel pressure checks. Includes 100psi gauge, hose, and adapter. The adapter features stainless steel springs and a push button that releases all fuel through the drain line.

Fits all models with EFI.  
**VT No. 16-0591**

**Adjustable Main Jet Conversion Kit** fits all Bendix carburetors. Thumb screw adjustment makes tuning a five minute cinch.

**VT No. Item**  
**35-0202** Jet Kit  
**16-0865** Jet Tap 9/32" x 32,  
Some early carbs require drilling and tapping for jet installation.



**Slow Jet Screw Driver** facilitates removal of Keihin slow jets with no damage to jet.  
**VT No. 16-0546**



**Induction Alignment Bracket Kit** will insure accurate installation of intake manifolds on TC-88 and Ev 1340cc engines with CV carburetor or electronic fuel injection replaces 40054-01.

**VT No. 16-1004**



**Keihin Carb Fitting Extractor/Installation Tool** will remove and replace broken or damaged. VT No. 40-0534, 27371-76, 90 degree carburetor fitting.  
**VT No. 16-0687**

## Hose



**Hose Clamp and Tool.** Stock type clamp closing tool and clamps in bags in as sized (Inner Diameter).

VT No.	Inner Diameter	Use/Fits
16-0053	11/16"	Feed Drain
16-0062	17/32"	Gas Hose
16-0060	23/64"	Battery Vent
16-0061	7/16"	Oil Hose
16-0052	13/16"	Drain Hose
16-0064	45/64"	Oil Filter, 1979-up XL
16-0082	13/16"	Oil Line, 1995-up XL
16-0063	19/32"	Brake Hose Reservoir
37-8933	1/4"	1982-up FLT-FXR-FXST Battery Vent Hose
16-0081	1/2"	Cam Cover Fitting Oil Line Vent, 1993-up XL
16-0050		Tool, Pliers Only



**Snimp Hose Cutter** is a hand held device which quickly cuts any size rubber or nylon hose up to 3/4" diameter. leaves hose perfectly clean and square.  
**VT No. 16-0049**



16-0050



16-0080

**Oil Gas Line Clamp Assortment** includes pliers. Refill for clamps as noted by Oetiker#. **VT No. Oetiker No.**  
**16-0080** Service Kit  
**16-0083** Pliers only



16-0083



**Fuel-Oil Line** are available in shop rolls in reinforced black or clear for fuel use.

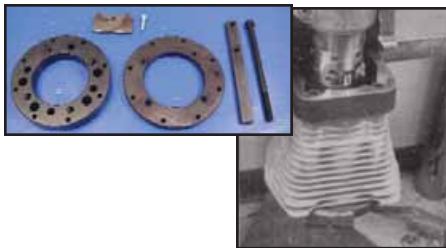
Black	Clear	Size	Length
40-9999	—	1/8"	10'
40-0117	40-1250	3/16"	25'
40-0118	40-1251	1/4"	25'
40-0119	40-1252	5/16"	25'
40-0120	40-1253	3/8"	25'
40-0253	—	3/8"	6'
40-0126	—	1/2"	25'



**Fuel Transfer Tool** for all 2001-up EFI Twins (except V-Rod). Attaches to the stock check valve and allows fuel transfer from one bike to another or to use for draining the fuel tank for seasonal storage. Transfer of fuel is at roughly one quart every 20 seconds. No modification required.  
**VT No. 16-0593**



# Cylinder



**S&S Evolution Cylinder Torque Plate Kit** simulates stress conditions when boring and honing Evolution Cylinders. Machined from chrome moly steel, fits all Big Twin 1340 and Sportster 883-1100-1200 cylinder, and 3 5/8 S&S cylinder.  
**VT No. 16-0928**



**Jims Evolution Case Cylinder Spigot Bore Tool** allows boring of cylinder spigot hole, up to 3.8125" by utilizing the stock cylinder stud holes. Use on all 1984-99 style Evolution crankcases.  
**VT No. 16-1409**



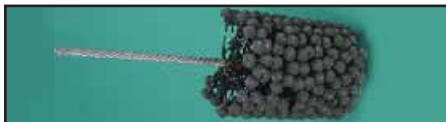
**Cylinder Torque Plate Kit** by Delkron tool fits Shovelhead and Evolution cylinder up to 4" bore to simulate stress condition when boring and honing cylinders. Order studs for XL separately.

VT No.	Item
16-0929	Delkron Big Twin
16-0940	Delkron, Studs for Evolution XL



**Cylinder Hold Down Nuts** are used to hold down cylinders during service. Allows motor to be turned over with heads off. Use on all Twin Cam and Evolution Twins. Set of 4.

**VT No. 16-0446**



**Cylinder Wall Flex Hone** features silicone carbide globules which allow the deglazing of cylinders 3" to 4 1/4" when powered by a 3/8" or larger drill, 180 Grit.

VT No.	Bore
16-0574	4 1/4"
16-0576	4"
16-0575	3 5/8"
16-0616	3 7/16" - 3 1/2"
16-0618	3 3/16"



**Piston Ring Installer Tool.**  
**VT No. 16-0628**



**Jims TC-88 Cylinder Torque Plates** lasered with correct torquing sequence for TC-88 and TC-96 OEM cylinders.  
**VT No. 16-1287**

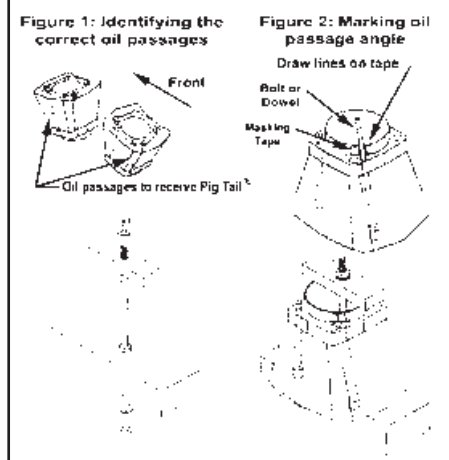


**Jims Twin Cam Case Boring Jig** used for boring out Twin Cam Case sets to accept 4" Bore Cylinders. This tool is designed to be used in a heavy duty 15" drill press. Works on TC-88 A&B Crank Cases.  
**VT No. 16-1177**



**Cylinder Head and Crankcase Boring Fixture** designed to simplify and reduce the time required to prepare the crankcase and cylinder heads for big bore kit installations. The boring plate is made of cast iron and is precision ground and machined with Panhead and Shovelhead head bolt patterns in one end. The other end has been finished with the cylinder base patterns of Knuckleheads, Panheads, Shovelheads and V2 Sportsters and Big Twins. When adapted to boring bar it is possible to bolt the crankcases or heads to the plate and perform the boring modifications necessary for 3 5/8" bore cylinders. V2s require use of spacers because of the extreme length of the cylinder and head spacer, part VT No. 16-1868. Big Twin V2's with male style studs require on spacer VT No. 16-1868 and one spacer VT No. 16-1869. Note: Big Twins V2's with female type studs must be changed to the male type of studs, when installing a sidewinder.

VT No.	Item
16-1867	Boring Plate with screws
16-1868	3 11/16 Spacer
16-1869	7/8 Spacer



**Evolution Cylinder Oil Passage Drain Tubes** for stock bore size cylinders only. Each kit is supplied with tap, hex wrench two drain tubes and instructions.

VT No.	Item
16-0911	Kit
16-0912	Pair Replacement Tubes only

**VT No. 16-0911**  
**Tube Installed**



**Trock Cylinder Base Lapping Plate** is constructed of cast iron and has 2 sides to lap warped Stock Evolution or 3 5/8" Cylinder base, supplied with compound.

VT No.	Item
16-0713	Plate (Discontinued)
41-8003	Compound



**Ring Groove Cleaner.**  
**VT No. 16-0619**



**Piston Ring Grinder Tool.**  
**VT No. 16-0976**



**Ring Compressor Kit.**  
**VT No. 16-0622**



**Jims Piston Support Plate** provides a non-marring flat support to push the bottom of the piston as rings and cylinder are installed over piston.  
**VT No. 16-1164**





# Cylinder



**Sifton Dowel Guide Plate** is precision drilled to press cylinder dowels in straight on 1984-up Big Twin and XL models.

VT No. 16-0837



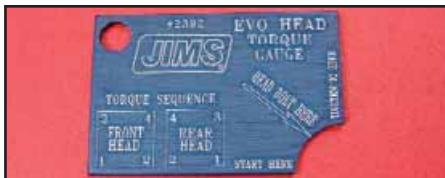
**Cylinder De-Glazer** feature spring action on the stones keep the stones against the cylinder wall at the correct pressure. Capacity 2" to 5 1/2".

VT No. 16-0610



**Exhaust Stud Drill Fixture** fits 1984-up Ex Big Twin and XL ports to align for drilling of broken exhaust stud.

VT No. 16-0698



**Head Bolt Torque Gauge** for all Evolutions. This gauge allows the measuring of 90° when tightening Evolution head bolts. Torquing sequence lasered on gauge. Use on all 1984-up Evolution models.

VT No. 16-0679



16-1845



16-1846

**Evolution Cylinder Tools** allow installation of stud to correct height or removal by locking to stud.

VT No.

16-1845

16-1846

Item

Assembly Tool

Extracting Tool



**Cylinder Jig Assembly** use to repair stripped damaged cylinder base threads up to a 4" bore, in engine case. This will hold centerline

and squareness to where the factory intended them to be. All this with the engine still in the frame using an angle head drill (drill not included). Use on all 1984-99 Big Twin Evolution and 1986-up XL.

VT No. 16-0891

# Head



**Jims Compression Release Valve Tool** use this tool for machining all Twin Cam heads 1999-up for compression releases. Installs on front or rear head, with or without valves installed. Order threaded tap tool and compression releases separately.

threaded tap tool and compression releases separately.

VT No. Item

16-1169 Compression Release Tool

16-1170 Threaded Tapping Tool

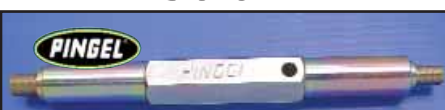
16-1171 Compression Release Valve, pair

60-0132 Machine Head and Install Release Valves



**Cylinder Head Support Stand** fits Evo, Shovelhead and Ironhead Sportsters. Adapters are to be used with a bar press and the stand included to push guides in and out in a straight line. Set includes stand and 6 adapters.

VT No. 16-0651



**Head Holder Tool** by Pingel® has 12 and 14mm ends to hold head through spark plug hole, by support in a vise. VT No. 16-1842



**Powerhouse Head Plate Peg Holders.**

VT No.

16-0525



**Ball Vise** allows positioning of heads for porting.

VT No.

16-0577



**Clone Speed Wrench** allows removal of head bolts on 1936-84 Overhead Valve models, after they are broken loose with wrench.

VT No. 16-0953

# Rocker Arm



**Rocker Arm Bushing Reamer** fits Big Twin and Sportster Arms by Jims.

VT No. 16-1804



**Cast Fin for Repair** cut to fit and weld in!

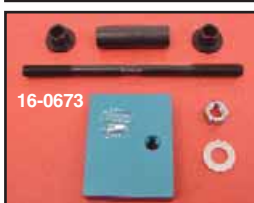
VT No. 11-1710



16-1848



16-0612



16-0673

**Rocker Arm Bushing and Roller Bearing Puller** for 1957-up Big Twin and XL. Replaces 95760-57.

VT No. Item

16-1848 Puller

16-0673 Installer

16-0612 .554 Ball Hole



**Rocker Arm Refacer.** The rocker arm refacer in combination with an ordinary drill press allows you to do an excellent job of refacing pitted and worn rocker arms on Shovelhead, Evolution and Sportster models.

VT No. 16-0754



# Valve



**Sifton Valve Spring Tool** is bench mounted to compress springs on 1936-up engines also used for checking valve travel and coil bind of the valve springs by placing a dial indicator on the top of the threaded shaft.

VT No.	Item
16-1774	Bench Tool
16-0331	Cone Adapter



**Rear Intake Valve Spring Compressor.** Compresses intake valve spring on the rear cylinder of the Softail so the rocker box can be removed while the engine is still in the frame. It does this without damage to the valve stem, valve spring, or rocker cover. Replaces 34641.  
VT No. 16-0868



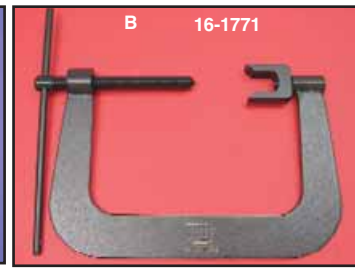
**Valve Grinding Stick** for hand grinding valves. Synthetic rubber vacuum cup is resistant to oil, grease and gasoline. 15/16" cup diameter.  
VT No. 16-0604



**Valve Stem Height Gauge** features one side reading in direct lift and the opposite side on .025" increments, making stem height easy to measure.  
VT No. 16-0143



**Sunnen Valve Seat Driver Kit** includes driver, 1.50 x 1.625 ring, 1.75 x 1.875 ring and 2.00 x 2.215 ring.  
VT No. 16-0523



**Valve Spring Compressors** Factory style replaces 96600-36 for all Big Twins OHV.

VT No.	Fits	Brand	Fits
16-0146	1936-84	Replica	Big Twin
16-1771	1936	Jims	Big Twin/Evolution
16-1788	1936-up All	Sifton	Big Twin/Evolution
16-0320*	2005-up		Big Twin
	2004-up		XL

\*Note: Conical Valve Spring Adapter only to be used with 16-1771 valve spring compressors.



**Jims Exhaust Gasket Installer** Tool will correctly install exhaust port gaskets into cylinder heads, minimizes gasket distortion. Helps heads flow better.  
VT No. 16-2112



**Conical Valve Spring Collar** add this to the Jims or Motorshop valve spring compressor tool (96600-36B) to remove and replace valves and conical valve springs (Bee Hive) OEM 18245-02. A must have tool for safe valve work. Use on all 2005-up Big Twin, except S.E. models and all 2004-up XL's.  
VT No. 16-0320



**Trock Valve Travel Checkers** are the most accurate method of measuring valve travel on Shovelhead, Evolution, TC-88 or Sportster. If valve guides or springs do not have proper clearance, a valve checker will pinpoint the problem easily.

VT No.	Type
16-0753	Evolution/TC-88
16-0752	Sportster
16-0751	Shovel
16-1762	Panhead
16-0750	Dial Indicator





# Valve Guide



16-0132



16-0643

**Valve Guide Driver Tool Set.** Three sizes of drift valve guides for Sportsters, 74's and 45's. Includes 5/16", 11/32", and 3/8" valve guide drive.

VT No.	Type
16-0132	V-Twin
16-0643	Jims



**Cruise Drive 6-Speed Maindrive Gear Remover Tool** removes the main drive gear from the main bearing correctly while in the transmission case. This eliminates the need of an arbor press and the risk of case damage. For use on all Twin Cam 6-Speed Cruise Drive models and all 2006 Dynaglide and all 2007 to present Twin Cam models.

VT No. 16-2130



**Cruise Drive 6-Speed Maindrive Gear and Bearing Remover/Installer Kit** for servicing the main drive gear or the main bearing on the latest 6-Speed transmission. This precision tool removes or installs both parts correctly without damaging the case. Use on all Twin Cam 6-Speed Cruise Drive models, 2006 Dynaglide and all 2007-up Twin Cam models.

VT No. 16-2131



**Jims Beta Engine Hydraulic Balancer Retainer Tool** use these retainers to hold the hydraulic tensioners in place when repairing all Beta engines. The hydraulic tensioners are used to keep constant chain tension on the counter balancer system. Without the use of these retaining tools you will not be able to remove or install the balancing system. Use on all Beta Twin Cam engines 2000-up.

VT No. 16-1858



16-1745

**Valve Guide Oil Seal Kits** include four pieces of proper guide seal and installation tool. Tool sold separately.

VT No.	Fits
16-0403	1948-79 Big Twin Kit
16-0404	1980-84 Big Twin Kit
16-1745	1985-up Big Twin and XL Evolution Kit
16-0405	1957-84 XL Kit
16-0133	1948-79 Big Twin Tool, Black, only
16-0134	1957-84 Sportster and 1981-83 Big Twin
16-1746	1984-up Evolution Tool



**Valve Guide Plug Gauge Kit** includes 12 gauges (.3105, .3115, .3120, .3405, .3410, .3415, .3770, .3755, .3780, .3785 and .3790) and two handles.

VT No. 16-0758



**Valve Guide Flex Hones** used to finish valves guides. Made from 180 grit silicon carbide to ensure smooth finish.

VT No.	Size	Models
16-0759	10mm	Shovelheads
16-0760	8mm	Evolution and XL



**Jims Beta Engine Interconnect Seal Leak Testing Tool** will check the sealing of interconnect seal 45359-00. This seal is required to seal the oil passage way from right case to the balancer plate in all Beta engines. After you have built the "B" lower end with flywheels, balancer assembly and then before you install the cam support, you will be using this new tool to inspect sealing of the rubber interconnect seal. You should also check this deal when installing a new cam set or any time you have the cam support off. If this new or old rubber interconnect seal is leaking it can cause over oiling of the lower end decreasing horse power from oil drag, and oil carry over (oil coming out the breathers). This taxes the other seals and gaskets and lower end oil pressure. Can also be used to check pressure lost at the balancer tension plate. Tool is easy to use, just screw tool to right case and install leak-down tester. Test time takes about the same as changing a set of spark plugs. Use on all Beta Twin engines 2000-up.

VT No. 16-1859



**16-0872**  
**16-0869** **Shoulderless Valve Guide Remover and Installers.** Takes the guess work out of valve guide installation on all Evolution and Twin Cam motors. Insures that the valve guides are installed to proper depth. Use driver handle to remove or install valve guides. Installation of shoulderless guides requires correct installation socket.

Installation Socket	Driver Handles	Driver Handles
VT No.	VT No.	Fits
16-0869	16-0872	Evolution
16-0321	16-0322	2005-up Twin Cam



**Valve Guide Pusher** lets you push guides into the head rather than use a punch. By Rowe. Fits 1984-up Evolution.

VT No. 16-1828



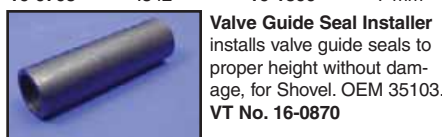
**Valve Guide Driver and Sockets** install shoulderless 83-up XL and Evolution guides to correct depth. Includes three sockets and one driver.

VT No. 16-0422



**Valve Guide Reams.** Sold each.

VT No.	Size	VT No.	Size
16-0761	.310	16-0769	.343
16-0762	.311	16-0770	.344
16-0763	.312	16-0771	.376
16-0764	.313	16-0772	.377
16-0765	.314	16-0773	.378
16-0766	.340	16-0774	.379
16-0767	.341	16-0775	.380
16-0768	.342	16-1860	7 mm



**Valve Guide Seal Installer** installs valve guide seals to proper height without damage, for Shovel. OEM 35103.

VT No. 16-0870



**Cruise Drive 6-Speed Trap Door Bearing Remover/Installer** will accurately install a lubed ball bearing into the transmission trap door. Also removes bearing without error and can be performed on a work bench, no need for an arbor press. Use on all Twin Cam 6-Speed cruise drive models, 2006 Dynaglide and all 2007-up Twin Cam models.

VT No. 16-2132



# Service Scan Tool



**Computer Diagnostic Service Tool.** This tool is capable of diagnosing trouble codes for all 1994-99 computer controlled Big Twins. Available as a standard tool that includes scan tool, software cables, adapters, A/C power adapter and instruction manual. For USA 110v 60 cycles application.

VT No.	Item
16-5000	Scan tool
16-5002	Delphi System Cartridge 2001-2002 FXST



**Pro EFI Race Tuner.** This software package will make tuning the EFI models a professional endeavor. It is divided into two mode:

- Data (Real Time)
  - Tuning Changes
- The kit includes
- CD Software
  - User's Manual



Requirements for use are Windows 98, a CD-ROM, serial port, 32MB RAM, 10MB hard drive and a highly skilled technician. Replaces 32107-01F.

VT No.	Item
32-0380	Tuner
32-0382	Cable



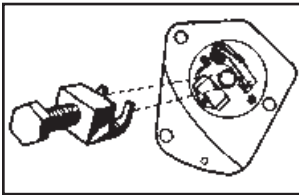
**Daytona Twin Tec Twin Scan II** for all 2001-up fuel injected models using Delphi system and 2003-06 carbureted models with 12 pin ignition modules reads and cleans diagnostic trouble codes from engine control unit, turn signal/security mod-

ule, speedometer and tachometer. The Twin Scan II is especially useful for diagnosing hard to find intermittent trouble codes. The motorcycle can be operated while the unit is installed under normal condition (no trouble codes) the unit will store data of the last hour of operation. If a trouble code is set the unit automatically stop logging data 30 minutes after the code is set. This allows you examine data before and after the code was set. The Twin Scan II interfaces to a laptop PC minimum PC requirement is 300mHz Pentium running Windows 98/ME/XP with SVGA display and available USB port. Also available Twin Cam II and Tuning aid for Screamin' Eagle Race tuner includes all feature of Scan II but allows the tuner to analyze logged data and display front and rear cylinder air/fuel ratio and the required volumetric efficiency correction (in percent) with the same RPM rows and throttle position sensor columns used in the SERT tables. Twin Scan II+ includes WEGO IID dual channel wide ban exhaust gas oxygen sensor interface for logging AFR date along with engine date.

VT No.	Item	Fits
16-0376	Twin Scan 2	2001-12 with J1850 bus
16-0378*	Twin Scan II Plus	As Above
16-0379	Twin Scan 3	2011-u with CAN data bus

\*Note: Same features as Twin Scan II with the addition of extended data logging time, USB interface and waterproof construction.

## Timing



**Acu-Time Device** locks advance mechanism on all 1970-78 models for accurate static timing. Includes instructions.

VT No. 16-0161



**Clear Timing Plugs** available long optically clear type or short standard version with or without the internal hex.

VT No.	Type	U/M
16-1731	Long	Each
16-0829	Hex	Each
16-0099	Standard	10 pack
16-0160	Standard	Each



**Timer Device** bolts inside primary cover on 1970-up Big Twin models. After installation, only inspection oval of outer primary has to be removed for accurate timing.

VT No. 16-1736



**Clean Time** pushes into timing hole and wipes flywheel clean for strobe timing.

VT No. 16-0715



**TDC Indicator** is a 14mm tool that locates top dead center of piston with heads on engine, when degreasing camshaft.

VT No. 16-0047



**Spark Plug Indexer** fits 14mm plugs allows electrode to be placed in proper position.

VT No.	Item
16-0623	Tool
16-0676	Index Washer 30 Assorted



**Flywheel Locking Tool** screws into timing hole and allows holding of the crank for top dead center. It has a hollow center to allow view of timing mark.

VT No. 16-1851



**Spark Plug Firing Indicator.** Captive type spark plug firing indicator. No need to puncture cable. Reads flashes from neon bulb to indicate plug firing.

VT No. 16-0624



**Oversize Plugs with Tap.** Kit includes a tap and a chrome dome head plug.

VT No.	Type	Includes
7502-2	Engine Drain	Plug and Tap
7503-1	Engine Drain	Oversize Plug
7500-2	Timing	Tap and Plug, Acorn
7501-1	Timing	Acorn Plug, O.S.
9407-1	Timing	Tap only

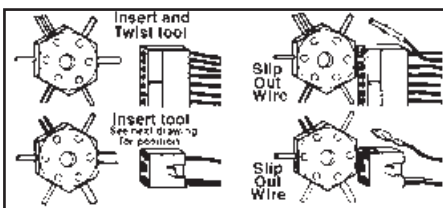




# Wiring Tools



**Deutsch Terminal Crimping Tool** is designed to correctly crimp Deutsch Connectors. Replaces 39965. VT No. 16-1295



**Wire Terminal Tool** replaces 97362-71, depresses terminal lock tabs in disassembly of factory wiring harness. VT No. 16-0959



**Terminal Crimper** is used for the new smaller multi lock terminals. Fits 2001-up model with fuel gauge. OEM# 44695. VT No. 16-1293



**Pin and Receptacle Extractor** for Molex style connectors.

VT No.	Type
16-1258	Pin
16-1259	Receptacle



**Wire Terminal Tool** crimps factory style wire end. VT No. 16-0710



**Spark Plug Wire Tool** strips 7 and 8 mm ignition wire, crimps spark plug and distributor terminals. VT No. 16-0514



**Jims Ignition Switch Housing Tool** will align the ignition switch housing as the retaining screws are being torqued. Use for proper alignment of switch knob with housing. Use on all 2003-up FLT models and 2002-up V-Rods. VT No. 16-0318



**Deutsch Pin Tools.**  
VT No. Size Color  
16-0087 20 Red  
16-0088 16 Blue  
16-0089 14 Green



**Jims Ignition Switch Connector Remover Tool.** Use this tool to safely remove ignition switch wiring connector on all 2003-up

FLT and all 2002-up V-Rod models. VT No. 16-0319



**Removal Tool Set** for Deutsch HD10, HD20, HD30 Connectors. VT No. 16-0090

# Deutsch Tools

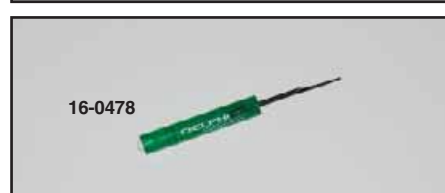


**Seven Piece Factory Style Wrench Set** features exact replicas as the dealers used.

Fits:  
EL 1936-1952  
FL 1941-1984  
G 1941-1957  
W 1936-1952  
VT No. 16-1296



**Deutsch Terminal Tool** use with stamped type terminals VT No. 16-0476



**Wire Removal Terminal Tools.**  
VT No. Style  
16-1618 Mate-N-Lock  
16-1619 Molex MX-150  
16-0478 Delphi-Packard Weather Pack



**Deutsch Terminal Tool** use with solid type terminals VT No. 16-0475



# Battery Maintenance



**Dyna Charge Monitor.** The DCM-1 evaluates voltage in a charging system and indicates whether system voltage is too low or high. Unit is designed for 12 volt systems and features LED indicators.  
VT No. 32-9088



**Battery Hydro-meter** is a great tester for cycle batteries because of its small size.  
VT No. 16-0864



**"Activator" Battery Filler** attaches to any standard acid pack tube. Positive thumb release valve absolutely controls acid flow. No acid spills, burns or holes in clothing.  
VT No. 16-0037



**Custom Battery Cable Kit** includes 25' cable, (20) 1/4" terminals, (12) 5/16" terminals, (8) 3/8" terminals, 40 pc, black heat shrink and 12pc red heat shrink. Available with clear or black cable.

VT No.	Item
32-1350	Clear Kit
32-1351	Black Kit
16-0351	Crimping Tool



16-1792



16-1870

**Super Smart Battery Tender** constantly monitors battery without the damaging effects of a trickle charger. Initial charge brings battery up to full charge then converts to a float charger, keeps a 12 volt battery at 13.6 volts.

VT No.	Type
16-1792	12 volt
16-1793	6 volt
16-1870	12 volt, Junior Tender
16-1871	6 volt, Junior Tender
16-1794	Snap Cord



**Deka Power Sports Advanced Battery Charging System.** A 12 volt 2.0 amp automatic battery tender for both AGM and lead acid batteries. Features LED indicator lights. Reverse polarity protection, spark free operation and automatic switch to float mode.  
VT No. 16-0086



**Volt Meter** reads 8-16 volts on a 48 mm diameter face.  
VT No. 32-0702



**Battery Tender Lightweight Chargers (Power Tender).** 6 amp features ring type terminals without quick disconnect. Available for standard lead/acid batteries or sealed AGM batteries.

**For Lead/Acid Batteries**

VT No.	Volts
16-1875*	12

\*Note: Also For Sealed AGM Batteries



**Battery Booster Cable Set.** 10 feet in length. 10 gauge in size.

VT No. 16-0350



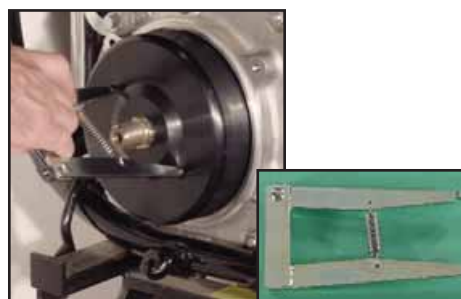
**Chrome "Motor Style" Battery Tender.** Charges and maintains voltage on 2 batteries at once at .800 amp for conventional batteries or maintenance free batteries. An internal sound chip mimics the sound of a motorcycle engine starting when you connect the charger to a battery. There is also a button to let you activate the sound.

VT No. 16-0547

# Alternator Repair



**Moto Shop Alternator Sealing Ring Replacement Service.** Ship in 1970-up left hand case with damaged O-Ring lip and we will machine out and replace with new steel sealing ring.  
VT No. 60-0164



**Big Twin Alternator Rotor Puller** uses the two threaded holes in rotor to allow removal of rotor.  
VT No. 16-0693



**Big Twin Alternator Rotor Puller** uses the sprocket shaft end to center and the two threaded holes in rotor to allow removal of rotor.  
VT No. 16-1054



16-0691



16-0692

**Trock Crankcase Repair Fixture.** A precision machined cast iron fixture that allows BT left hand crankcase o-ring seal area to be machined out so new sealing lip ring can be installed. Sealing ring is manufactured from ductile iron and must be loctited in place.

VT No.	Item
16-0691	Fixture
16-0692	Sealing Ring
60-0164	Machine and Install Case for sealing





# Bushing-Race Pullers



**Wheel Bearing Wrench** removes the slotted lock nut on spoke wheels. Sportster and 1967-72 Big Twins. Replaces 94630-67.

**VT No. Type**  
**16-0155** V-Twin with Handle  
**16-0657** Jims with 1/2" Drive



**Wheel Race Puller.** Replaces service tool 33071, for hubs with tapered races 1973-99. All models.

**VT No. Item**  
**16-0425** Puller and Installer  
**16-0065** Driver

**Cross Arm Puller** is 1" square bar 4 3/4" long slotted, with 3/8" - 16 bolts, use any size bolt to pull gears and sprockets that have 2 tapped holes, or use with bearing separator 16-0602.

**VT No. 16-0499**



**2000-up Wheel Bearing Puller and Installer Tools.** Use on all 2000-up Twins. 16-0558 includes arbor to pull 3/4", 1" and 25mm sealed bearings.



VT No.	Item	Fits
16-0732	Puller and Installer	2000-06
16-0558	Puller and Installer	2000-up
16-1370*	Puller	2007-up
16-1371*	Installer	2007-up

\*Note: Requires 16-0732 tool also for use.



**Bushing Puller Tool** will extract bushings in blind holes of cam covers.

**VT No. 16-0231**



**Jims Rear Wheel Compensator Bearing Remover/Installer Tool** used to remove or install the ball bearing in rear pulley on all 2008-up FLT models. Tool will center and guide the bearing for proper installation.

**VT No. 16-0315**

# Hand Tool



**Fiberglass Saddlebag Rivets, 50 pack.**

VT No.	OEM	Length
37-0566	90965-63	5/16"
37-0567	90966-63	1/4"
37-0568	90967-64	3/8"



**Clutch and Brake Brass Rivets.**

VT No.	OEM	Type	Use
37-8805	—	Short 4-41/2	Brake
37-8806	41871-31	Long 4-5	Brake
37-8807*	8226	Short 7-4	Clutch

\*Note: For clutch hub friction disc.



**Riveting Tool** installs rivets in saddlebag top and other fiberglass items. Replaces 39787-A

**VT No. 16-0896**

**Spotlamp Holder** assists in assembly procedure in conjunction with signal lamp.

**VT No. 16-0515**



**Stud Remover and Replacer** is a powerful tool that is designed to fit into the hard to reach spots and get out the hard to turn studs. Capacity from 1/4" to 3/4".

**VT No. 16-0617**



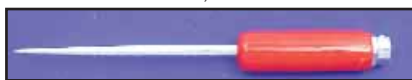
**Rivet Set** will cap head of solid steel rivets for 3/8 round head size.

**VT No. 16-0709**



**Safety Wire Tools.** Wire twisting pliers have an automatic twisting and playing motion which gives uniform twists without damaging wire, with an attractive end result. Bolt drill fixture allows drilling of 1/16" diameter holes in heads of hex, 12 point, or allen head cap screws from 3/16" to 5/8" shank diameter. Includes drills and bushings, which secure the bolts during the drilling operation. Tools sold separately.

VT No.	Item
16-0749	Drill Fixture
16-0983	Twisting Pliers
16-0972	Tie Wire, .032
16-0971	Tie Wire, .041



**Piercing Punch.** Heavy 7 1/4" long, use as drift, punch or scribe.

**VT No. 16-0968**



**Vise Jaw Pads** available in aluminum.

**VT No. 16-0420**



**Gasket Removal Brush Tool** is 2" in diameter and can be used for cleaning, deburring and resurfacing. Excellent for removal of silicone glue and paper gasket material from gasket surface.

**VT No. 16-0794**



**Hand Held Impact Driver** is a very efficient tool for those hard to loosen screws. Complete set includes main body, adapter, two screw bits and two phillips bits.

**VT No. 16-0151**



**Motion-Pro Shop Tools.**

VT No.	Item
16-1737	Piston Pin Press Tool
16-1738	Spring Removal Hook



# 4-Speed Transmission Tools



**Big Trans Stud Installer Tool** for 1936-86 4 and 5-Speed Softail.  
VT No. 16-0719



## Mainshaft/Drive Bearing Press Tools.

VT No.	OEM	Fits	Press
16-0105	33428A	1979-84 BT 4-speed	Shaft
16-0036	34734	1979-90 BT 5-speed	Seal
16-0028	34810	1984-90 XL	Drive
16-0057	34733	1977-84 Big Twin	Countershaft
16-1755	35820-86	1986-90 XL	Countershaft
16-0117	34735	1936-38	Gear



**Mainshaft Starter Clutch Gear Puller** for 1936-84 4 Speed model.

VT No.	Brand
16-0712	V-Twin
16-0740	Jims



**Mainshaft Ball Bearing Lock Nut Wrench** replaces 94635-41A. Fits 1940-up Big Twin models. Handle is not included.

VT No. 16-0116



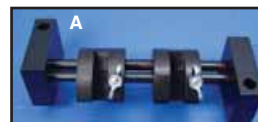
**Adjustable Reamers** use to fit I.D. on new bushings.

VT No.	Years	Fits
16-1798	1941-85	BT Main Drive Gear
16-1799	1936-84	BT-XL Kicker Shaft
16-0878	1936-57	BT Brake Cross Shaft
16-1801	1936-84	BT Clutch Release Shaft



**Big Twin Mainshaft Seal Remover and Installer** replaces 95660-42. Use to install and remove main seal. This tool will push seal in as flat and straight as possible to .050 below housing for a no leak fit.

VT No.	Years	Speed
16-1803	1936-76	4
<b>Additional Drivers for Above</b>		
16-0702	1977-86	4, (2.4 O.D.)
16-0703	1979-81	5
16-0701	1980-84	5
16-0700	1985-up	5



**Shifter Fork Gauge** is used to set and align shifter forks on Big Twin 4-speed models.

VT No.	Jims	#	Years
16-0121	16-0641	A	1939-78
16-0120	16-0642	B	1979-84

## Countershaft Sprocket Nut Tool



**Countershaft Sprocket Lock Nut Wrench** features an extra long two piece design inner collar which will retain wrench to nut. Fits 1936-up Big Twins, 1 7/8" hex, 4 and 5 speed models.

VT No.	OEM	Brand
16-0821	94660-37A	V-Twin
16-0757	94660-37A	Jims 1/2" Drive



**Mainshaft Impact Driver Tool** fits 1941-84 4 Speed.  
VT No. 16-0656



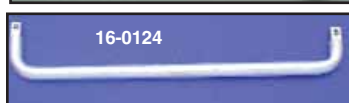
**4-Speed Transmission Arbor** replaces clutch hub nut to allow test rotation with 1/2" drill.  
VT No. 16-1274



**Big Twin Countershaft Sprocket Nut Tool** is a factory style tool.

VT No.	Models	Use
16-0114	1937-84	4-Speed Big Twin 4th Gear Sprocket Nut
16-0901	All	Handle for above
16-0823	1941-73	45
49-0366	1936-40	Big Twin

## Shop Wrenches



## Shop Wrenches.

VT No.	OEM	Use
16-0141	94555-55A	Big Twin Pinion Nut, 1954-up
16-0106	94644-65	Big Twin Primary Shoe, fits through cover access hole
16-0124	94590-73	3/8" Drive for Head Bolts
16-0107	94585-30	Cylinder Base, 5/8"
16-0875		Tappet Oil Screen, Plug
16-0108	94589-29A	Cylinder Base, Head Bolt fit 9/16" Nuts
16-0804	11929-29	Spark Plug and Tappet 1 5/32"
16-0103	94501-56	Circuit Breaker Big Twin 17/18" Hex
16-0067	12047-30	UL Head Bolt
16-0068	12047-36	OHV Head Bolt
16-1019	—	UL Head Bolt



# Mainshaft 5 and 6 Speed



**Big Twin Mainshaft Seal Remover and Installer** replaces 95660-42. Use to install and remove main seal. This tool will push seal in as flat and straight as possible to .050 below housing for a no leak fit.

VT No.	Years	Speed
16-1803	1936-76	4

## Additional Drivers for Above

16-0702	1977-86	4, (2.4 outer diameter)
16-0703	1979-81	5
16-0701	1980-84	5
16-0700	1985-up	5



**Jims Right Side Drive Transmission Trap Door Puller Tool.** Removes access door on all right side drive transmissions. VT No. 16-1356



**Transmission Main Drive Gear Nut Wrench Tool.** Use to remove the 2 1/4" hex nut from main drive gear which secures the rear drive trans pulley. Use with 1/2" drive ratchet. Use on all 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No.	Brand
16-1359	Jims
16-1261	Sifton



**5-Speed Main Drive Gear Seal Installer Sets** seal to proper depth with transmission assembled. By Jims. VT No. 16-0664



**Shifter Shaft Sleeve Tool** fits 5 and 6 Speed transmission.

VT No. 16-1664



**Countershaft Support Plate Tool** fits 1991-up 5-speed Sportster.

VT No. 16-1756



**Jims Transmission Door Removal Tool** use this tool to pull complete door with gears and shafts from transmission. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1358



**Jims Main Bearing Installer Tool.** Allows proper installation of transmission case main bearing by holding bearing square to its bore. Use on 2006-up Dyna and 2007-up FXST-FLT models.

VT No. 16-1355



**Big Twin 5-Speed Transmission Shift Pawl Adjuster Tool Set** fits mid 1992 and later. Includes a tool to loosen the jam nut on the pawl adjuster and the other to adjust the shifter pawl set. Replaces 41184.

VT No. 16-0646



**Jims 5-Speed Transmission Main Drive Gear Tools.** Use 16-0994 to remove and install main drive gear and install main bearing. Use 16-0718 for remove main drive bearing. Both tools can be used without removing transmission case. Use on all 5 or 6-Speed 1980-up Big Twins.

VT No.	Type
16-0994	Main Drive Gear Installer
16-0718	Main Drive Bearing Remover



**Mainshaft/Drive Bearing Press Tools.**

VT No.	OEM	Fits	Press
16-0105	33428A	79-84 Big Twin 4-speed	Shaft
16-0036	34734	79-90 Big Twin 5-speed	Seal
16-1767	37842	1991-up Big Twin-XL	Drive



**Main Drive Gear Seal Installer** allows installation of main drive gear oil seal on assembled transmission to proper depth. The protective sleeve included is used for protecting inner bearings of main drive for installation. For 2006-up FXD and 2007-up FLST. VT No. 16-1363



**Jims Main Drive Gear Installer Tool.** This tool will hold

the main drive gear square to its bearing bore for proper main drive gear installation. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1350



**Jims Main Drive Gear Bearing and Seal Installer.** This tool will hold bearings and seal square to its bore for proper installation and will also allow both to be installed to proper depth. Use on all 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1353



**5-Speed Transmission Door Remover and Installer** removes and replaces the door bearings Saves time as the complete transmission does not have to be dis-mounted allowing the mainshaft and countershaft clusters to remain in place for use when installing 5-Speed kicker kit.

VT No.	Item/Brand
16-0756	V-Twin Door Remover and Installer
16-0663	Jims Remover Only
16-0731	Jims Installer Only
16-0672	Bearing Remover/Installer



**Big Twin Mainshaft Primary Bearing Race Remover and Installer** for use on all 1984-up Big Twins, replaces 34902.

VT No.	Brand
16-1645	Sifton
16-0877	Jims





# Primary



**Outer Primary Cover Starter Bearing Removal Tool** removes 9063 Torrington Needle Bearing for Big Twin and XL covers.  
**VT No. 16-0717**  
**Note:** This tool will also remove the 35961-52 Bearing in Countershaft Gear (Late) 4 Speed Big Twin, and also the 4-Speed Sportster Clutch Gear.



**Big Twin Primary Drive Locking Tool** is used as a wedge type device to hold the primary drive gear while the proper torque is applied without damaging the primary gear. Constructed of nylon, OEM# 41214.  
**VT No. 16-0650**



**Ratchet Plate Riveting Fixture** securely aligns plate to drum while setting rivets on 1971-79 XL model clutch drum.  
**VT No. 16-0165**



**Starter Jackshaft Seal Installer Tool** will easily allow alignment and installation of starter jackshaft seal (OEM#12066) without distortion or damage to seal. For 1994-06 Big Twins except 2006 Dynaglide.  
**VT No. 16-1373**



**Inner Primary Cover Bearing and Seal Remover Installer Tool** safely removes and installs inner primary bearing (OEM# 9135) without damage to the new bearing by pushing on the outer perimeter of the bearing. Removes and installs inner primary and seal that the transmission mainshaft passes through (OEM#12052A). For L1984-06 FXST/FLST; 85-06 FLT/FLHT/FXR/FXD/FXDWG  
**VT No. 16-1367**



**Primary Locking Bars** use to lock primary for servicing.

VT No.	Use
16-0680	4-Speed BT's and 5-Speed FXST
16-0681	5-Speed FXR-FLT
16-0682	1991-up Sportster and Buell®
16-1357	2007-up Dyna
16-0327	2007-up FLT



**Primary Plug Wrenches for Sportster models.**

VT No.	OEM	Years
16-0158		1971-84
16-0985*	33186	1971-up
8862-1	Evolution	1986-up

**\*Note:** Uses 3/8 socket handle



**Clutch Adjusting Gauges** are used to find the correct distance between the outer drive plate and outer releasing disc for 1971-83 Sportsters, 1936-67 early and 1968-84 late Big Twins. Set of 3 tools  
**VT No. 16-1807**



**1971-85 XL Clutch Adjust Tool.**  
**VT No. 16-0123**



**Primary Drive Aligning Fixture** will align teeth on clutch shell with motor sprocket. Fits Ev.  
**VT No. 16-0203**



**Starter Pinion Gear Holder Tool** fits 9 and 10 tooth gears.  
**VT No. 16-0484**



**Starter Ring Gear Rivet Fixture** removes the starter ring gear rivets from Big Twin clutch shells. For 2006-07 Big Twin except Dyna.  
**VT No. 16-1368**

# Belt



**Final Drive Tool** fits final drive pulley, so the nut can be properly set to torque specifications.

VT No.	Type
16-0649	Big Twin
16-0588	XL



**Belt Tension Gauge** designed to aid in properly adjusting belt tension on models with a secondary drive belt.  
**VT No. 16-1765**



**Calibrated Belt Tension Gauge.** Accurately measures belt tension.  
**VT No. 16-0589**

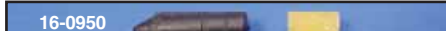
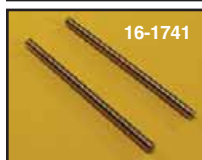
# Chain



**Standard Chain Puller** eliminates the annoyances of installing the master link in rear chain. Conveniently pulls chain halves together without loosening at rear wheel. Fits all sizes.  
**VT No. 16-0611**



**Chain Puller Tool.**  
**VT No. 16-1615**



**Diamond Chain Breaker** is excellent for cutting 530 heavy chain.

VT No.	Item
16-0255	Breaker Complete
16-0950	Replacement Tip



**Link Press Tool** presses the side plates on all 530 O-Ring Chains.  
**VT No. 16-1729**



**Small Chain Breaker** replaces 12039X.  
**VT No. 16-0144**

**Chain Riveting Tool and Chain Breaker.**

VT No.	Item
16-1740	Breaker
16-1741	Riveting Tool Set
16-0201	Riveting Tool Set (V-Twin)



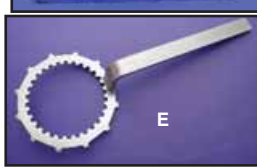
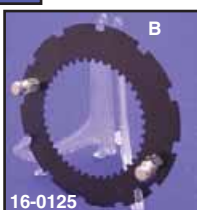
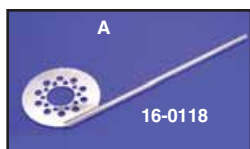


# Clutch Tool



**Clutch Hub Pullers.** 16-0113 pointed type pulls clutch hubs on 74" and 45", motor sprockets on 74" and XL transmission sprocket on XL, also rotor assembly on 74" and 80" Big Twin, 1970 and later. 16-0115 swivel style fits over clutch push rod on 1970-85 Big Twin so there is no need to remove the kick cover.

VT No.	Item	Type
2556-1	1936-40	—
16-0113	1941-84	Point
16-0115	1941-84	Swivel
16-0961	1984-up Wet Clutch Type	Big Twin
16-0310	Primo Brand Pro Clutch	



**Clutch Drum Locking Tools** for removing clutch hub and motor nuts.

VT No.	#	Year	Model
16-0118	A	1941-84	Big Twin
16-0662	B	1941-84	Big Twin, Jims
16-1775	E	1984-89	Big Twin
16-0125	B	1952-70	XL
16-0159	D	1956-84	XL
16-0992	C	1971-84	XL



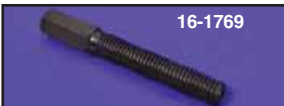
**Clutch Hub Stud and Pin Tool.** Hold tool in vise, insert new stud, place clutch hub over pin, then peen over pin.  
VT No. 16-0145



**Gasket Locator Tool (3 Pc Set)** will align primary, cam and transmission end cover gaskets, to prevent misalignment and oil leaks.  
VT No. 16-1362



**Clutch Assembly Service Tool** will safely disassemble and assemble the clutch shell assembly and also remove and install the clutch hub from the bearing. Safe removal and installation of clutch shell ball bearing (OEM# 37906-90) with no damage to new bearing.  
VT No. 16-1366



**Clutch Compressor Tools** allows disassembly of clutch pack.

VT No.	Year	Model
16-0410	1941-84	Big Twin
16-0967	1990-up	Big Twin
16-1769*	1991-up	XLs (Screw)
16-0156	1971-84	XLs
16-0059	1985-90	XLs

\*Note: Adapts 16-0967 to fit 1991-up XL.



**Clutch Compression Tool** fits 1990-up Big Twin and 1991-up XL models.  
VT No. 16-1514



**1990-up Big Twin Clutch Compressor Tool** features access windows to ease the removal and installation of snap ring, by Jims.

VT No.	Fits
16-1805	Big Twin
16-1849	Adapter to fit 1991-up XL

## For V-Rod

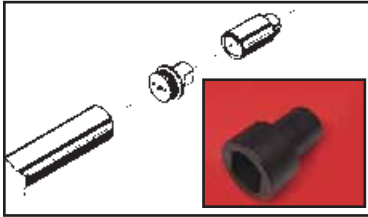


**V-Rod Service Tools** by Jims.

VT No.	Tool
16-1130	Clutch Alignment
16-1667	Clutch Hub Holder



# Fork



**Fork Tube Plug Tool** has a special socket which fits 1948-up Glide Fork Plug, 1/2" drive.

VT No.	Brand
16-0630	V-Twin
16-1008	Jims



**Fork Leg Holding Tool** holds for prevent fork tube from turning when removing top nuts.

VT No. 16-0898



**Fork Spring Compressor Tool** puts pressure on top fork plug to compress spring to ease in assembly.

VT No.	Type
16-0573	Trock
16-1009	Jims
16-1025*	Jims

\*Note: Use with 16-1009 for extended length fork tubes.

16-1009



**Cone Nut Wrench** features pins to turn cog style cone nut 3/8" drive. Fits Big Twin.

VT No. 16-0178



**Fork Pre-Load Assembly Tool** allows pre-load to be set on 41mm forks during assembly.

VT No. 16-0745



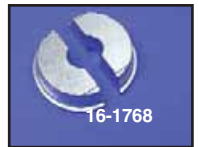
**Fork Stem Nut Wrench** fits FLT.

VT No. 16-1977



**FXSTS Fork Stem Bearing End Play Setup Wrench.** Offset Handle allows for proper clearance of fuel tank and other accessories.

VT No. 16-0444



16-1768



16-0895



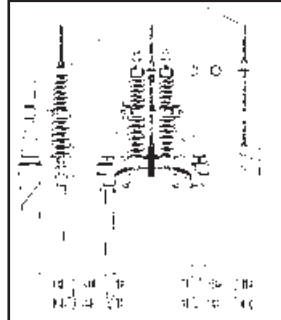
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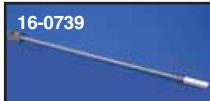
16-0065

**Steering Head Bearing Tools** fit 1988-up FXST, 1982-up XL, 1992-up FXDB-FLT to remove or install races.

VT No.	Item
16-1768	Remover
16-1766	Installer
16-0065	Driver Handle for A
16-0895	Driver Handle Adapter, 1992-up FLT-FXD



VT No. 16-1003 Shown



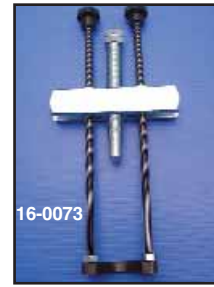
16-0739



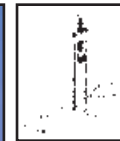
16-1003

**Spring Fork Assembly Clamp** facilitates building of stock type forks by compressing upper and lower spring.

VT No.	Years
16-1003	1936-57
16-0739	1988-up



16-0073



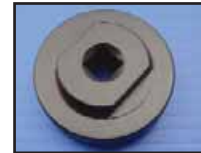
**Lower Neck Bearing Puller Set** includes cross arm puller, rods and lower puller claw. Simply remove roller from old bearing, install claw and turn puller.

VT No. 16-0073



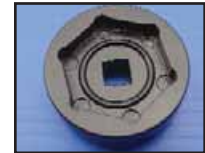
**Fork Bearing Installer Tool** fits over 1" stem allowing bearing to be "driven" on.

VT No. 16-0724



**Hex Top Fork Nut Socket** has 3/8" drive, rubber protector on inside for Glide Forks, 35mm. By Jims.

VT No. 16-0670



**Socket Wrench** is designed for easy removal and installation of stock 1 3/8 hex flat top fork tube plugs. Installed O-Ring eliminates damage to top of plug. Black oxide.

VT No. 2317-1



**Fork Tube Spring Retainers and Pin Wrench Kit** includes 2 retainers for 1952-72 XL and pin wrench for installation removal of retainers.

VT No.	Item
7700-3	Kit
7701-2	Retainers only, pair



VT No. 7611-2

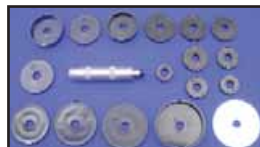
**Spring Fork Rocker Bushing Remover-Installer Tool** will replace stock steel bushings on 1930-57 Spring Forks.

## Fork Seal Drivers



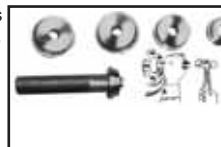
**Fork Seal Driver** for 41 mm bushing and seal installation.

VT No. 16-0557



**Seal Driver Kit** quickly installs seal without damage, includes 16 adapters for seals up to 3 3/8" diameter. Includes special adapters for "shielded" seals.

VT No. 16-0069



**Bearing Race and Seal Driver** includes driver handle and 6 machined aluminum collets to fit most bearings.

VT No. 16-0505



16-0055



16-0056



16-0964

**Fork Seal Installer.** Installs bushing and seal without damaging components.

VT No.	OEM	Use
16-0055	34190	1983-up FXRT 1983-up XR
		1984-up FX-XL
16-0056	34634	1984-Later FLT-FXWG
16-0964	36583	1987-up FXR-FXRS, 88-up XL



**49mm Fork Seal and Dust Shield Installer Tool** installs the lower leg 49mm fork seal squarely into the bore with no damage to the lip seal surface. Also installs dust shield cover. It is a two-price design to aid in some assembly applications.

VT No. 16-1369



**Adjustable Split Fork Seal Driver Set** use on all 35mm, 39mm and 41mm forks. Includes seal drive and three seal guides.

VT No. 16-0074





# Suspension



**Shock Tool** for use with 3/8" ratchet drive. Fits 1989-up Softail.  
VT No. 16-0917



16-5506

**Shock Tool** allows disassembly and assembly of shocks on Softail models. Fits 1986-up.  
VT No. 16-5506



**Shock Absorber Tool.** Replaces 97010-52A to simplify shock absorber disassembly or assembly by holding spring in compression while disassembling parts. Includes 97019-52A block.

VT No.	Item
16-0079	Tool
16-1847	Bolt for Above



**Shock Tool Set** is a five piece set of each of the numbers listed below.

VT No.	#	OEM	Model
16-0136	A-E	Complete Set	
16-0101	B	94820-75	1975-78 XLs Gabriel
16-0409	C	94409-78	1979-up Sportster
		94448-82	1979-up FXR-FLT
16-0408	A	94408-78	1982-up FL-FLH
		94444-82	1982-up FX-FXE
16-0100	D	94700-65	1952-74 Sportster
			1958-81 FL-FX Scissor Type
16-0748	E	94555-89	1989-up FXST-FLST
16-0954	F	94448-82A	1989-up ST, 1979-up XL-FXR



# Swing Arm



16-1733



16-1734

**5-Speed Swing Arm Tools** cleve block spreading tool facilitates installation of swing arms on rubber mount models. Swing arm assembly tool removes and installs swing arm pivot components.

VT No.	OEM	Item
16-1733	33805	Spreading Tool
16-1734	96200-80	Assembly Tool



**Swing Arm Bearing Installer Tool** will install both right and left swing arm bearings squarely on their bores to the installed depth on 2002-up FLT models. Replaces 45327.  
VT No. 16-1058



**Rear Swing Arm Section Bearing Remover/Installer** for use on 1986-99 FXST-FLST models.  
VT No. 16-0688

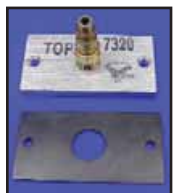


**Jims Powertrain Alignment Tool** aligns powertrain to proper position safely and easily on most touring models. Performing alignment service must be done when engine, transmission or swing arm has been repaired or removed. This tool helps to provide the accurate alignment necessary for handling safety and performance. For 1993-97 FLHT; FLHR; FLHX and FLTR.  
VT No. 16-1365

# Brake

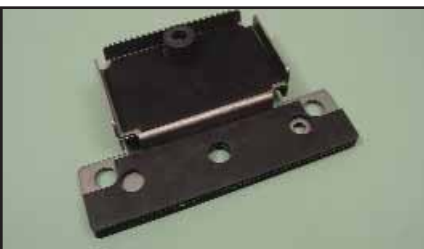


**Brake Drum Turning Arbor** for all 5-bolt Big Twin brake drums. Replaces 97280-60A.  
VT No. 16-0122



**Front Low Pressure Master Cylinder Bleeder Covers** will allow one person to bleed brake lines or to check system for leaks and can drain the entire system to replace brake fluid.

VT No.	Year
16-7319	1972-81
16-7320	1982-95
16-7322	1996-98



**Brake Caliper Piston Remover Tool** to aid in removal of piston from 2000-up front and rear caliper assembly. Replaces 43293A.  
VT No. 16-0541



**One Man Brake Bleeder** includes tubing and canister and complete instructions.  
VT No. 16-1784



**Flex Hone for Rotor** designed to produce a swirl or cross hatch pattern with a non-directional finish which reduces friction induced breaking noise: medium grit. Designed for low speed operation using a 3/8" drill. Available for Master Cylinder Bore.

VT No.	Use
16-0640	Rotor
16-0785	5/8" Master Cylinder
16-0786	11/16" Master Cylinder
16-0787	3/4" Master Cylinder



**Brake Cylinder Hone.**  
16-0613 Brake Cylinder Hone 3/4" to 3"



**Snap Ring Pliers** are specially designed with long reach fingers for use on master cylinders.  
VT No. 16-0788



# Tire Changers



**Wheel Truing Stand** includes 3/4" and 1" shafts.  
VT No. 16-1525

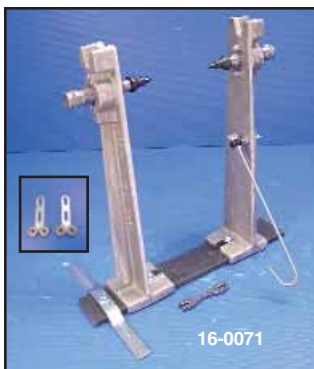


The 280 Balancer has a specially designed balancing shaft, plus a large, easy to read optical balance indicator that allows for fast and simple wheel attachment.  
VT No. 16-0511



The Coats 220 Tire Changer is a simple to operate manual changer designed to handle motorcycle wheels, including the new custom alloy wheels and tubeless tires, easier and faster. Shipped by UPS.  
VT No. 16-0510  
Item  
16-0510 Tire Changer  
\*Note: Replacements for tire bar included with cycle changer.

## Wheel Truing Stand



**Wheel Truing Fixture** of cast alloy construction. Adjustable width for all wheels, with or without axle in place. Order 16-0071 roller stanchions for use with flywheels and



**Wheel Truing/Balancing Stand** includes tapered adapters and hub arbors.  
VT No. 16-0867 Type Full  
16-1272 Bearings for centering



**Professional Wheel Truing Stand** includes roller stanchions to facilitate flywheels or crank shafts.  
VT No. 16-0799



16-1272



16-0164



16-0200

**Spoke Wrenches.** Available as multi-fit 6 jaw type or 8 gauge forged.

VT No. 16-0164 Type 6 Jaw  
16-0200 1-piece, 8 gauge, forged

shafts or wheels with non-removable axle.

VT No. 16-0498 Item Wheel Truing Stand  
16-0071 Roller Stanchions  
37-8928 Wheel Weight Kit

## Tire Tool



**Spoon Style Tire Iron.** 10 1/2" long.  
VT No. 16-0694

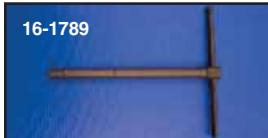


16-0102

**Wheel Lug Allen Wrench** fits all front and rear wheels 1935-72 FL models.



16-1730



16-1789

VT No. 16-0102 Item Lug Wrench  
16-1730 Drive Socket  
16-1789 "T" Lug Wrench

**FLT Wheel Lug Wrench** is a 3/8" hex key shaft which fits all 1982-up FLT models. Sold each.  
VT No. 16-0996



**Motion Pro Bead Popper** designed to break the bead on all types of motorcycle tires. Made of durable high impact plastic that will not scratch the wheel.  
VT No. 16-0542



16-0939



16-0163



16-1764



16-0066



16-0957

**Tire Changing Tools.** Breezer Tools makes tire changing a breeze by its patented design which lifts the bead without bending the rim. Instructions included, use in conjunction with the breezer iron. Valve fishing tool combines core driver and deflating pin with full length cable to facilitate working valve through rim hole.

VT No. 16-0939 Item 15 1/2" Forged Iron  
16-0163 8 1/2" Forged Iron  
16-1764 15" Forged Iron  
16-0973 240 mm  
16-0066 Valve Fisher  
16-0957 Breezer Flat Iron



**Tire Pressure and Temperature Monitor.** The tire pressure and temperature monitor tool requires a pressure range of 10-70 PSI and a temperature range of -22 degrees to 185 degrees F.  
VT No. 16-9725



**Digital Tire Gauge.** 0-150 PSI.  
VT No. 16-0997



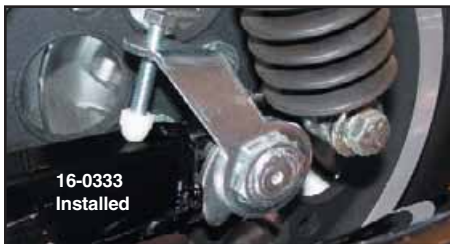
16-1777



VT No. 16-1777 Item Repair kit  
16-1778 Bead Breaker

**Stop & Go Tire Repair Kit and Bead Breaker.** Deluxe tire repair kit allows immediate road side repair of punctured tires. Tire bead breaker is made of heavy duty cast iron.





**16-0333 Installed**

Axle lock tool. This tool holds the axle in place and prevents movement of adjustment while you torque the rear axle on 2002 and up FLT



**3rd Hand Axle Locker Tool.** If you have noticed, as you are torquing down the axle nut after you set the proper belt tension, (Deflection) the welded axle nut will move to the low side of adjuster cam. This movement will allow the belt to lose adjustment. Now with **Jims 3rd Hand Axle Tool**, you will not need to find a helper to hold the nut or yourself having to reach around the tire and hold the nut from moving. Just place this tool over the welded nut on left side with the neck portion of tool resting over the swing arm. Hand screw the adjusting screw to take up any slack in tool. Torque the axle nut from right side knowing that the welded nut will not turn allowing the belt to lose its adjustment.

**VT No. Brand**  
**16-0329 Jims**  
**16-0333 VT**



**Combination Oil Filter Wrench** includes drain plug hex at opposite end.  
**VT No. 16-0451**



**Seal Puller Tool.** Simply insert the tip of the tool behind the oil or grease seal, press and pull leverage works for you. No more pounding, hammering and digging that might damage bearings. Two size tips reach in and fit nearly all seal applications.

**VT No. 16-0838**



**Wheel Bearing Greaser.** Fitting and spigot greases 1973-99 tapered bearings without removing seals, use existing seal spacer or purchase separately.

**VT No. Item**  
**16-0803 Tool**  
**44-0303 Collar**



**Cable Oiler** directs lubricant into the cable core.  
**VT No. 16-0686**



**Swing Arm Bearing Installer Tool** will install both right and left swing arm bearings squarely on their bores to the installed depth on 2002-up FLT models. Replaces 45327.  
**VT No. 16-1058**



**Rear Swing Arm Section Bearing Remover/Installer** for use on 1986-99 FXST-FLST models.  
**VT No. 16-0688**



**Jims Powertrain Alignment Tool** aligns powertrain to proper position safely and easily on most touring models. Performing alignment service must be done when engine, transmission or swing arm has been repaired or removed. This tool helps to provide the accurate alignment necessary for handling safety and performance. For 1993-97 FLHT; FLHR; FLHX and FLTR.  
**VT No. 16-1365**



**Jims Rear Axle Not Torque Adapter** for 2006-up FL Touring models. This tool is designed with a 1/2" drive receiver hole for inserting your torque wrench thus letting you torque the axle nut from an offset position. Removal of muffler is not required for use of this tool.  
**VT No 16-1906**

## Lubrication



**Swivel-Flex Oil Filter Wrenches** feature gripper teeth and a durable treated band with a vinyl covered flex handle which swivels to clear frame and exhaust obstructions. Replaces 96221-80.  
**VT No. 16-0903**



**Grease Fittings.** Special thread.

VT No.	Year	Type	U/M
8770-6	1909-38	Nickel	6 pack
49-0595	1909-38	Nickel	10 pack
44-0533	1938-up	Zinc	10 pack
9864-6	1938-84	Cadmium	6 pack
9897-6	1938-84	Chrome	6 pack
44-0558	1938-up	Nickel	10 pack
37-0511	1938-up	67.5°, Zinc	5 pack
37-0521	1938-up	90°, Zinc	5 pack



**Flat Top Alemite Grease Fitting Adapter** is designed to be used on alemite grease fitting, 0340. Tapped 1/8" NPT to use with standard grease gun.  
**VT No. 9929-1**

## Swing Arm



**5-Speed Swing Arm Tools** cleve block spreading tool facilitates installation of swing arms on rubber mount models. Swing arm assembly tool removes and installs swing arm pivot components.

**VT No. OEM Item**  
**16-1733 33805 Spreading Tool**  
**16-1734 96200-80 Assembly Tool**



**Hollow Axle Plug Tool** will give the correct center point required for safe vehicle alignment. Lube the o-ring ends of these tools and insert in left and right ends of axle on Dynaglide and XL models. Use on all 2008-up Dynaglide and XL models.

**VT No. Brand**  
**16-0328 Jims**  
**16-0332 Sifton**



**Oil Filter Wrench** fits all spin on filters. 3/8" drive. Fits all models and TC-88.  
**VT No. 16-0743**



**E-Z Squeeze Bearing Packer.** Patented design greases all tapered bearings with a 5/8" or larger inner diameter Canister holds grease for clean operation.  
**VT No. 16-0755**



**Oil Drain Reservoir.** 2.5 gallon. Low profile fits under frames on Softail and FLT models.  
**VT No. 16-0585**



**Oil Filter Wrench** use with 3/8" drive.  
**VT No. 16-1941**



# Wrench



**Evolution Rocker Box Cover Wrench** is designed to reach 3/16" allen on Evolution Big

Twins and Sportster models. Features a 3/8" drive for use with torque wrench and a vinyl covered handle. **VT No. 16-0220**



**FLT Rear Axle Nut Ratchet Wrench** for 36mm axle nut. Low profile design allows access to rear axle nut without removal of exhaust system.

**VT No. 16-9636**



16-5530



16-6529

**Evolution Ratcheting Intake Manifold Wrench** features ball end allen bit end for flexibility in tight areas.

**VT No. 16-5530**

**Evolution Rocker Box Cover Ratcheting Wrench** features low profile to allow clearance between frame and engine, long handle for increases reach and replaceable bit.

VT No.	Item
16-6529	Wrench
16-6530	Replacement Bits



16-6531

**Lower Rocker Box Wrench for Evolution and Twin Cam Models** is used to install and remove lower rocker 7/16" mounting bolts.

VT No.	Fits
16-6531	Evolution
16-6532	TC-88



**Exhaust Bracket Wrench** used to remove and install front exhaust bracket bolts on all 1999-up TC-88 Dynaglide models.

**VT No. 16-6538**



**Speedometer Sending Unit Wrench** features a shortened 3/16" ball end hex bit for removal or installation of hex screw used on all Big Twin models. Equipped with electronic sending units.

**VT No. 16-6738**



16-9723



16-9724

**Oil Pressure Gauge and Indicator Lamp Sending Unit Wrenches.** These reversible ratcheting wrenches are used to install and remove oil pressure indicator lamp or gauge sending unit on all FL Touring models 1999-up.

VT No.	Item
16-9723	Indicator Lamp
16-9724	Sending Unit



**Manifold-Side Car Wrenches** large type, heavy duty for shop use.

VT No.	OEM	Size	Use
16-0111	94536-18	1 3/4"	Side Car
16-0110	94537-26	1 7/8"	45 Manifold
16-0112	94538-30	2"	SV Manifold
16-0109	94538-48	2 1/8"	Big Twin Manifold



**11 Piece Open End and Box Wrench Set.**  
**VT No. 16-1744**



**Jims O. Sensor Wrench Tool** fits 2010-up FLT.  
**VT No. 16-0382**



16-2755



16-2756

**Jims 2012 Twin Cam O2 Sensor Wrenches** allow removal and installation of O2 sensors without removal of exhaust pipes.

VT No.	Use
16-2755	2012-up Dyna Front or Rear Sensor and 2012-up FXST Front Sensor
16-2756	2012-up FXST Rear Sensor



**Oxygen Sensor Tool** will remove and install oxygen sensors on fuel injected models. Can be used with 7/8" wrench or 3/8" drive.

VT No.	Fits
16-1131	18mm
16-1132	12mm



**Left Rear Engine Mount Bolt Wrench** allows removal and installation of left rear motor mount bolt on Big Twins without removing the inner primary cover. **VT No. 16-0518**



**Spark Plug Socket Set** features 3/8" drive to fit 12 and 14mm plugs.  
**VT No. 16-0202**



**Swivel Spark Plug Wrench** for all 12 and 14mm plugs. 180° rotation.  
**VT No. 16-0824**



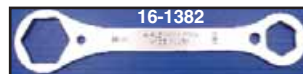
**Standard Spark Plug Wrench** 14mm type with bar handle fits under FL tanks.  
**VT No. 16-0825**



16-1380



16-1381



16-1382

**Flat Axle Nut Wrenches.**

VT No.	Size	Fits
16-1380	15/16 x 3/4	1999-01 2000-07 Softail
16-1381	36 mm x 3/4	2002-07 Touring
16-1382	36 mm x 15/16	2008-up FXD, Softail, Touring



**Twin Cam 24 Tooth Crankshaft Rotating Wrench** for use on all 2006-up Big Twins with 24T spline sprocket shaft to check engine timing and parts clearance.

**VT No. 16-9280**



**Hand Held Impact Driver** is a very efficient tool for those hard to loosen screws. Complete set includes main body, adapter, 2 screw bits and 2 phillips bits.

**VT No. 16-0151**



**Spotlamp Holder** assists in assembly procedure in conjunction with signal lamp.

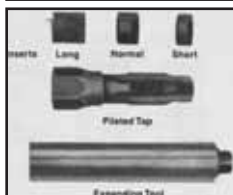
**VT No. 16-0515**



# Thread Repair Kit



## HELI COIL

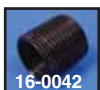


### Heli-Coil Thread Repair Kits.

are individually packaged by size in either a special thread series or contain special length inserts for the specific applications listed below. All kits come with tap, installation tool, a quantity of size inserts and complete instructions.



16-0043



16-0042

**Heli-Coil Spark Plug Inserts** replace stock inserts in 1966-up Shovelhead heads. Sold each.

VT No.

OEM

Type/Year

16-0043

16725-66A

Short, 1966-74

16-0042

16725-75

Long, 1975-up



**18mm Adapter Set** allows 14mm plugs to be used in earlier heads with 18mm spark plug threads.

VT No. 32-0057



**Spark Plug Hole Service.** Motors hop will Heli-Coil 14 mm spark plug holes on head sets. 15 day turn around. Chose Heli-Coil only or Weld-Up and Heli-Coil.

VT No.

Type

60-0168

Heli-Coil

60-0170

Weld/Heli-Coil



**Universal Thread Gauge Set** identifies USS, Metric, pipe size and spark plug size, four piece set.

VT No. 16-1763



**14-18mm Spark Plug Hole Thread Chaser** renews damaged

threads 13/16. Removes carbon and corrosion with a few turns. Allows firm seating of plugs. Assures metal to metal contact for effective heat transfer.

VT No. 16-0603

### Heli-Coil Kits and Replacements

Kits For HD	Thread Size	Length	Repair Kit	Inserts Per Kit	Inserts Only	Insert Qty.	Drill Size
Spark Plugs	18mm	.500	16-0906	24	16-0907	6	23/32
Pan D Rings	10-24	.285	16-0918	12	16-0919	12	13/64
Front/Rear Brake Drum Threads	3/8-20	.375	16-0921	6	16-0931	6	25/64
Head Bolt Threads	7/16-16	.656	16-0922	6	16-0932	6	29/64
XL Engine/Transmission Drain Plug, Early	1/2-13	.375	16-0923	6	16-0933	6	17/32
Drain PI Big Twin Chain case, XL Transmission	1/2-20	.375	16-0924	6	16-0934	6	33/64
Timing Plug	5/8-18	.325	16-0925	6	16-0935	6	41/64
Case Bolt and Gen.	5/16-24	.469	16-0926	12	16-0936	12	21/64
Big Twin Trans Cover w/Locking Insert	5/16-18	.469	16-0927	12	16-0937	12	21/64
Cam cover screw, tappet guide, oil pump stud and timer, and mounting threads							
	1/4-24	.500	16-0920	12	16-0930	12	17/64
	1/4-20	.375	16-0941	12	16-0944	12	25/64
	3/8-16	.562	16-0942	12	16-0945	12	25/64
	3/8-24	.562	16-0943	12	16-0946	12	25/64



**Heli-Coil Sav-A-Thread** repairs spark plug holes for 14mm short or long reach plugs on aluminum heads. Includes items pictured. No drilling necessary.

VT No.

Item

16-0044

Kit, Complete

16-0043

1/2" Insert, each

16-0042

3/4" Insert, each



16-0836

**Dies** are round type adjustable to restore damaged or mis-treated threads.

VT No.

Type/Use

16-0836

1936-84 Big Twin 1" x 24T

16-0801

FL-FLH Fork Stem

16-0811

1971-84 FX-FXE, 54-85 XL

7/8" x 24T Fork Stem

1936-84 Big Twin Mainshaft

3/4" x 18 Left

**Fork Stem Die Holder.** Order die separately.

VT No. 16-1011



16-0807



16-0407



16-0042

### Special Taps and Dies.

VT No.	Thread	Use
16-0807	3/8" x 20	1930-72 Brake Drum
16-0809	5/16" x 32	Grease Fitting, 9851
16-0416	7/16" x 16	UL-VL-45 Head Bolt
16-0014	1/4" x 24	Timing and Transtop
16-0407	1/4" x 24	Die
16-0904	13/16" x 24	1931-35 H Bars
16-0905	7/8" x 24	1936-48 H Bars
16-0865	9/32" x 32	Bendix Adjuster Jet
2282-1	11/16"	Timing Hole





# Bushing



VT No.	OEM	Item
10-2498	413-30	30-36 74" 80" Right Case
10-2519	416-30	30-36 74" 80" Left Case
10-8524	662-29	30-36 Big Twin and 45 Timer Shaft
10-8525	662-30	30-36 Big Twin and 45 Cam Gear Shaft
10-8526	662-34VL	34-36 Big Twin and 45 Oiler Drive Shaft
10-0700	17428-57	66-up Big Twin 57-up XL Rocker Arm 8 pack
10-0760	24331-36	57-up XL 29-73 45" Std Pstn Pin, pair
10-0761	—	As above .002 Oversize
10-0762	—	As above .005 Oversize
10-0763	24332-36	As above .010 Oversize
10-0756	24334-36	36-99 Big Twin Std Piston Pin, pair
10-0757	—	As above .002 Oversize
10-0758	—	As above .005 Oversize
10-0759	24335-36	As above .010 Oversize
10-0703	24641-36	36-99 Big Twin Oil Pump Shaft
10-0704	25581-36	41-69 Big Twin Crankcase Cover Gear Standard
10-2524	—	Same as above .005 Oversize
10-0705	25581-70	70-99 Big Twin Crnkse Cover Gear Standard
10-2525	—	Same as above .005 Oversize
10-0706	25582-36	41-54 Big Twin Cover Pinion Shaft Standard
10-2526	—	Same as above .005 Oversize
10-0707	25582-54	54-72 Big Twin Gear Cover Pinion Shaft Standard
10-0708	25582-73	73-92 Big Twin Gear Cover Pinion Shaft
10-2529	—	As above .005 Oversize
10-8536	25582-93	93-up Big Twin Gear Cover Pinion Shaft Standard
10-8556	—	As above .005 Oversize
10-0709	25586-37	57-up XL Cam Gear #1, 3, 4 Cams Cam Cover Front In L Ex Cam 74/80 Side Valve, Front Exhaust Cam 45
10-2540	—	As above .005 Oversize
10-0731	25588-37	45" 74" 80" Cam Cover Rear Intake Cam Side Valve
10-0710	25588-57	57-90 XL Cam Gear #2 Cam Standard
10-2541	—	As above .005 Oversize
10-0711	—	57-90 XL Gear Kit #1-2-3-4 Standard
10-8538	25588-91	91-up XL Gear #2 Cam Standard
10-2507	25590-37	45" 74" 80" Cam Cover Rear EX Cam
10-2512	25591-37	74" 80" Pinion Shaft Side Valve Standard
10-2503	25593-37	Pinion Shaft 45 Side Valve Standard
10-0712	25593-57	57-76 XL Cam Cover Pinion Standard
10-2544	—	As above .005 Oversize
10-0713	25593-74	77-up XL Cover Pinion Standard
10-8268	25594-75	77-81 XL Brk Pedal Operating Shaft
10-2506	25595-37	Cover Front In Cam 45 Side Valve
10-8271	25595-52	52-56 K Exhaust Cam
10-0714	25597-36	36-54 Big Twin Crankcase Cam Gear Standard
10-2527	—	As above .005 Oversize
10-0715	25597-57	57-E84 XL Idler Gear Standard
10-2546	—	As above .005 Oversize
10-2552	25598-91	1991-up XL Inner Cam
10-2504	25599-37	74" 80" Side Valve Crankcase Cam Shaft
10-2495	25601-37A	45 Side Valve Crankcase Cam Shift Bush
10-0716	25785-30A	41-69 Big Twin Idler and Circuit Breaker Gear
10-0749	26431-76	77-90 XL Oil Pump Cover
10-0750	26489-75	77-90 XL Oil Pump Body
10-0742	27290-24	Linkert Throttle Shaft, pr
10-0717	32525-36A	36-39 Big Twin Circuit Breaker Housing
10-0718	33099-52A	56-69 XL Magneto Housing
10-0719	—	54-79 XL Kick Starter Shaft
10-2493	33101-32	54-79 XL Kick Starter Shaft with Seal
10-2494	33213-30	Kick Starter Shaft 45 Side Valve
10-0720	33288-37	Kicker Pedal All Twins
10-0721	33438-50	41-69 Big Twin Kick Start Shaft with Seal
10-2486	—	50-85 Big Twin Mainshaft Starter Gear
10-0722	33442-57A	4-Speed with Stock Gear
10-0723	33442-73	As above .005 Oversize for Aftermarket Gear
10-8527	33445-89	57-72 XL Starter Ratchet Gear
10-8528	33446-89	73-79 XL Starter Ratchet Gear
10-2502	33638-52	89-93 Big Twin Prim Housing Starter Shaft
10-2511	33638-70	89-93 Big Twin Prim Housing Starter Shaft
10-8529	33713-85	52-69 FL-FLH Foot Shift Bracket
10-0724	34037-52	70-85 FL-FLH All FXWG-FXST Foot Shift Bracket
10-2483	34037-75	87-up FLT Prim Housing Shifter Shaft
10-2518	34427-38	54-74 XL Shifter Shaft Shifter
10-0732	34430-36	77-85 XL Shaft In Chain Cover
10-2514	34432-38	75-76 XL Shift Pedal Shaft
10-0725	34435-52	(Small) Shifter Shaft 45 Side Valve
10-0726	34498-52	37-76 Big Twin Hand Shift Shifter Shaft
10-2488	34632-84B	(Large) Shifter Shaft 45 Side Valve
10-0748	34898-79	41-79 Big Twin Shifter Shaft
10-0727	35094-65	52-79 Big Twin Pawl Carrier
10-2487	—	84-up FXR All Shifter Shaft
		78 only, All XL Brake Pivot Shaft
		65-85 4-Spd Big Twin Mainshaft Drive Gear
		As above for Andrews Gear only

10-8529

10-2511

10-2515	35316-41
10-2517	35320-41
10-0728	35322-38
10-2516	35787-52
10-0752	35787-72
10-0729	35789-36
10-0730	35791-36
10-2547	36035-26
10-2490	36042-41
17-9830	37436-36
10-0753	37458 41
10-0751	37458-52
10-0733	40520-63
10-0740	41685-37
10-2496	—
10-1256	42443-80
10-2497	47094-58
8859-1	47581-29
7708-1	47583-36
10-0741	47755-31
10-2505	47757-52
10-2500	51925-37
10-2501	51925-65
10-0743	60593-74

Low Gear 45 Side Valve
Second Gear 45 Side Valve
38-58 Big Twin Mainshaft Third Gear
54-72 All XL's Countershaft 1st Gear
73-84 XL Countershaft 1st Gear
41-85 Big Twin 4-Spd Countershaft Low Gear
41-85 Big Twin 4-Spd Countershaft 2nd Gear
29-73 45" Countershaft Left
41-73 45" Countershaft Side Cover
36-84 Big Twin 4-Speed Mainshaft End Bushing
Clutch Gear 45 Side Valve
52-85 All XL Models Clutch Gear
77-up XL Shifter Shaft In Right
Crankcase 66-up XL Shifter Shaft In Chain Cover
37-57 Big Twin Brake Backing Plate Cam
Same as above .015 O/S
80-up XL Brake Pedal All
58-84 Big Twin Seat Post
29-73 45's Seat Post
36-57 Big Twin Seat Post
37-57 Big Twin Brake Crossover Shaft
75-78 XL Shifter Cross Shaft
52-78 XL Brake Cross Shaft
37-64 Big Twin Seat Tee
65-80 Big Twin Seat Tee
74-85 FX 4-Speed Inner Primary Shifter

10-2497

10-2501

# Shim



12-0704



Shims. Check list for proper applications.

VT No.	OEM	Fits
12-0700	6743	Armature .030 1930-57 Big Twin
12-0701	6743A	Armature .060 1930-57 Big Twin
12-0702	6750	Shifter Fork .005 1941-85 Big Twin 4 -Speed
10-1257	6750	.007 As Above
12-0703	6752	Shifter Fork .015 1941-85 Big Twin 4-Speed
12-0711	6762B	Pushrod Cover 1941-up all Twins
12-0704	6767	Rocker Arm .005 1966-84 Big Twin
12-0710	—	Rocker Arm .005 1957-84 Sportster
12-0715	—	Same as above .007
12-0705	6769	Same as above .015
12-0706	6770	Cam Shaft .007 #1, 3, and 4 Cams
12-0716	6771	1957-85 Sportster, 1932-73 Flathead
12-0717	6773	Same as above .005
12-0718	6775	Same as above .015
12-1258	6778	Same as above .015
12-0709	6802	Starter Crank 1954-79 Sportster
12-0712	23741-55	Sprocket shaft bearing .003 1955-84 Big Twin
12-0713	—	As Above .003 1952-76 All XL
12-0714	—	As Above .003 1977-up All XL
12-0708	43560-35	Wheel Hub Shim .007 1935-66 Big Twin
12-9917	—	As Above .015
10-1259	35404-74	Shift Lever Shim .030 1977-up



# Gasket



## COPPER HEAD GASKETS

GB No.	James	OEM
15-0739	—	11-30
15-0185	15-1084	16768-36
15-0228	15-1251	16769-36
15-0268	—	16770-36
15-1104	—	—

## CYLINDER HEAD GASKETS

GB No.	James	OEM
15-0574	—	469-15
15-0234	—	16768-39
15-0370	15-1131	16770-36
15-0337	—	16765-53
15-0103	15-1008	16770-48
15-0269	—	—
15-1241	—	—
15-0273	15-1011	16770-66
15-0104	15-1010	—
15-0266	15-0977	—
15-1242	—	—
15-0366	15-0599	Set
—	15-1082	16773-85
—	15-1132	16773-85
—	15-1083	16773-85T
15-0643	—	—
15-0380	15-1219	—
15-1250	—	—
15-0376	15-1196	16775-99
—	15-1222	16787-99
15-0272	15-1009	—
15-0257	—	—
—	15-0970	16665-86
15-0258	—	—
15-0366	15-1082	16773-86B
15-0380	15-1083	—
—	15-1132	—
15-0643	—	—
—	15-1012	16769-57
15-0355	—	16769-57
15-0101	15-0973	16769-72A
—	15-1130	16769-73T
15-0102	15-0974	16769-73
15-0189	15-1015	16769-82

## CYLINDER BASE

GB No.	James	OEM
15-0412	15-0271	16774-21
15-1290	15-1227	—
—	15-0984	16774-86
15-1420	15-1121	—
15-0284	15-1133	16775-29
15-0725	—	16775-52
15-0107	15-0986	16776-48
15-0108	15-0987	16776-63
15-0109	15-0988	16777-48
15-0110	15-0989	16777-63
15-1289	15-1090	—
15-1580	15-1087	—
15-0222	15-0990	—
15-0235	15-0984	16777-83A
15-0735	15-1072	16774-94
15-0736	15-1101	—
—	15-1247	—
15-0460	—	—
15-1534	—	16789-04

## ROCKER COVER

GB No.	James	OEM
15-0221	14-0673	6114
—	15-1194	16719-99
15-0259	15-0706	16778-84A
—	15-0749	16778-97X
15-0251	15-0707	16779-84A
15-1229	15-1245	16800-99X
—	15-1252	16779-84X
15-0252	15-0995	17355-84
15-0651	15-0996	17355-84A
15-0652	15-0999	17356-84A
14-0945	15-0997	17355-92
14-0946	15-1000	17356-92
15-0253	15-0998	17356-84
15-0254	15-1001	17358-84
15-0653	15-1002	17358-84A
—	15-1195	17386-99
14-0172	14-0620	17535-38
15-0075	—	17535-38
15-0076	—	17537-38
15-0077	—	17539-38
—	15-1004	17540-69A
15-0113	15-1136	17540-69
15-1218	15-0705	17540-69X
—	15-1213	17540-99X
—	15-1203	17591-99
—	15-1204	17592-99
11-0584	—	63815-99
15-0663	—	63858-49
15-0112	15-1003	17536-70
15-0640	—	Beaded
—	15-1134	17353-86
15-0260	15-0991	17353-86
15-0261	15-0993	17354-86A
15-0386	15-1135	17354-86A
14-0933	15-0992	17353-89
—	15-0994	17354-89
—	15-1203	17591-99

## Fits

1930-35 74" .VL  
1939-73 45"  
1936-48 74" and 80" Side Valve  
1936-47 Knucklehead  
883-1200 XL, .010

## Fits

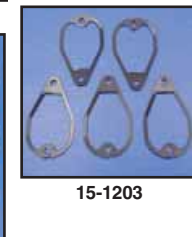
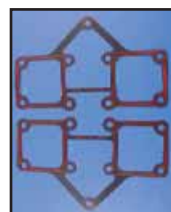
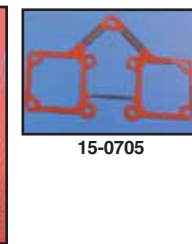
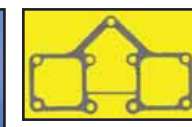
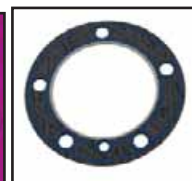
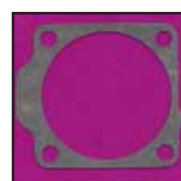
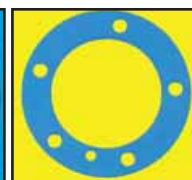
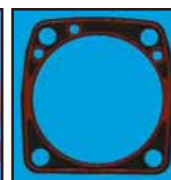
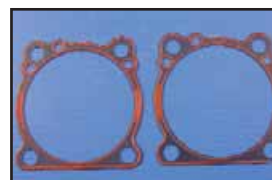
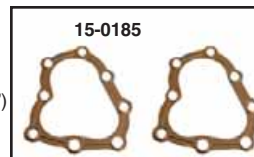
Knucklehead Rocker Shaft  
1939-73 45"  
1936-47 Knucklehead, Teflon  
165cc  
1948-65 Teflon  
As Above Stock Type  
1948-65 Copper  
1966-84 Head Fire Ring  
1966-84 Head Teflon  
As Above Stock Type  
1966-84 Copper  
1966-84 3 5/8" Big Bore Teflon  
1984-99 80" Evolution Head, Blue Teflon (.062")  
As Above Graphite with Fire Ring  
As Above (.030") Teflon  
1984-99 80" Evolution Head, Teflon Coated (.045")  
As Above Graphite Stock Type  
As Above .045 Blue Teflon Fire Ring  
As Above Black Teflon Fire Ring  
1999-2000 Twin Cam 88  
1999-up Twin Cam 95" (1550 Cylinders)  
As Above with Armor Coating  
1948-65 Panhead Fire-Ring  
86-2000 883 XL Fire Ring™  
86-87 1100 XL Blue Teflon  
As Above Fire Ring™  
88-2000 1200 XL Blue Teflon  
As Above .045"  
As Above .030"  
As Above Graphite  
1957-71 XL Teflon  
1957-71 XL Copper  
1972-E73 XL Copper  
1973-85 XL Teflon  
1973-85 XL Copper  
1973-85 1000 XL Copper (.045")

## Fits

1921-36 Big Twin SV and 1936-47 OHV  
As Above, Coated Metal  
1986-03 XL  
As Above Metal with Silicone Bead  
1929-73 45"  
1952-56 K model  
1948-62 Panhead; front  
1963-84 Panhead; Shovelhead; front  
1948-62 Panhead; rear  
1963-84 Panhead/Shovelhead; rear  
1948-62 Pan Metal, Silicone Bead  
1966-84 Shovel Metal, Coated  
1966-84 3 5/8 Big Bore Shovelhead, (front or rear)  
1984-99 Evolution; front or rear  
1984-99 Evolution Metal with silicone bead (.017 thick)  
1984-99 Evolution 3 5/8 Big Bore Cylinders; front or rear  
As Above Paper Type without silicone bead  
As Above, 3 3/4" Big Bore Cylinders; front or rear, metal w/silicone bead  
2004-up XL

## Fits

1984-99 80 Evolution Top Rocker Cover Washer, Copper  
1999-2000 Twin Cam 88 Rocker Housing, Coated Metal  
1984-99 Evolution Lower Right with Silicone  
1984-99 Evolution Lower Right Steel  
1984-99 Evolution Lower Left with Silicone  
1984-99 Evolution Lower Left and Right Metal with Rubber Coating  
As Above Paper with Silicone Beading  
1984-91 80" Evolution Lower Cork  
1984-91 80" Evolution Lower Rubber  
1984-91 80" Evolution Upper Rubber  
1992-99 80" Evolution Lower Rubber  
1992-99 80" Evolution Upper Rubber  
1984-91 80" Evolution Upper Cork  
1984-91 80" Evolution Inner Cork  
1984-99 80" Evolution Center Rubber  
1999-2000 Twin Cam 88 Rocker Cover, Coated Metal  
1938-47 Knucklehead Rocker Arm Shaft Housing  
1938-47 Knucklehead Rocker Cover Front Intake and Rear Exhaust  
1938-47 Knucklehead Rocker Cover Rear Intake  
1938-47 Knucklehead Rocker Cover Front Exhaust  
1966-84 Shovelhead (.30 thickness)  
1966-84 Shovelhead without Silicone  
1966-84 Shovelhead with Silicone  
1966-84 Shovelhead Metal with Silicone  
1999-up Twin Cam 88 Breather Case  
1999-up Twin Cam 88 Breather Baffle  
1999-2000 Twin Cam Rocker Cover Breather Element  
1984-98 Evolution Rocker Cover Bolt Washer  
1957-84 XL Rocker Cover  
As Above  
1986-up XL Lower Rubber  
1986-up XL Lower Cork  
1986 XL Upper Cork  
1986-90 XL Upper Rubber  
1989-up XL Lower Rubber  
1991-up XL Upper Rubber  
1999-up TC-88 Breather Cover





# Gasket

## CAM COVER

GB No.	James	
15-0334	15-0277	24921-37
15-0300	15-1077	25225-36A
15-0122	15-0928	25225-36C
15-0122	15-0928	25225-36C
15-0122	15-0928	25225-36B
—	15-1267	25225-36X
15-0390	—	25225-36C
—	15-0929	25225-70A
15-0123	15-1141	25225-70B
15-0741	15-0713	25225-70X
15-0692	15-0930	25225-93
—	15-0722	25225-93X
15-0879	15-0286	25226-37A
15-0407	15-0276	25227-37
15-1501	15-1198	25244-99
15-0153	15-1031	32521-36
15-0154	15-1031	32591-37
15-0339	15-0214	24978-57
15-0121	15-1078	25224-52A
15-0124	15-0931	25263-81
15-0245	15-0932	25263-86
—	15-0933	25263-90A

15-0308	—	—
15-0385	15-1223	25263-00

## PUSHROD TUBE

14-0501	14-0904	11101
14-0905	—	11101X
14-0508	—	11118
14-0512	—	11132
14-0514	—	11133
14-0513	—	11133A
14-0550	—	11145
14-0532	—	11157
14-0803	—	11293
15-0116	15-1137	17955-36
14-0028	—	—
15-0348	—	—
15-0117	15-1138	17955-48
14-0029	—	—
15-0349	—	—

## STARTER-GENERATOR

15-0217	15-1143	25811-11
15-0226	15-1021	30138-30
15-0287	15-1022	30143-30
15-0150	15-1023	30143-58
15-0410	—	31015-30
15-0655	15-1024	31320-80
15-0656	15-0966	31321-80
15-0174	15-0916	60518-65
15-0290	15-1064	60559-80
15-0181	15-0917	60645-65

## OIL PUMP

15-0306	—	24990-52
15-0310	—	24994-52
15-0299	15-0935	26231-78
15-0333	15-0275	26244-37
15-0727	—	26245-41
—	15-0126	26245-41
15-0338	15-0274	26246-37
15-0294	15-0940	26246-68A
—	15-0939	26246-68D
15-0127	15-0128	26255-41
15-0740	15-0130	26257-41
15-0131	15-0944	26257-50A
15-0134	15-0948	26258-68
15-0293	15-0949	26258-68B
15-0295	15-0953	26273-80A
15-0137	15-0952	26273-80B
15-0682	15-0954	26273-92
15-0138	15-0955	26276-80A
15-0296	15-0956	26276-80M
15-0683	15-0957	26276-92

## TAPPET GUIDE

15-0281	—	18245-39
15-0282	—	18257-39
15-0283	—	18259-39
14-0170	14-0621	18260-29
15-0255	—	18630-26
15-0330	15-0278	18631-30
15-0118	15-0925	18632-36
15-0119	15-0926	18633-48A
15-0120	15-0927	18634-48A
15-1542	—	—
—	15-1197	18635-99

## PRIMARY COVER GASKETS

—	15-1253	31434-06
15-0163	15-0909	34901-79
15-0743	15-1115	34901-85
15-0239	15-0904	34901-85
15-0050	—	—
15-0967	15-0937	34901-94A
15-0051	—	—
15-1512	—	34901-07
15-1547	—	34901-07
15-0164	15-1080	34902-79A
15-0165	15-1081	34903-79
15-0229	—	60538-81
15-0176	15-0906	—
15-0401	15-0900	60538-81C
15-0645	—	60539-89
15-0677	15-0902	60539-89X
15-0404	15-0921	60539-94
15-0052	—	—
15-0175	15-0905	60540-36
15-0644	15-1128	60540-65
15-0400	—	60540-65A
15-1510	15-1254	60547-06

1937-73 Flathead Cam Cover Breather  
 1936-40 Knucklehead  
 1941-69 Big Twin  
 1941-47 Knucklehead  
 1941-62 Big Twin  
 As Above with Silicone Bead  
 1963-69 Big Twin  
 1970-92 Big Twin (white .030")  
 1970-92 Big Twin (black)  
 1970-92 Big Twin with Silicone  
 1993-99 80" Evolution Big Twin, black  
 1993-99 80" Evolution Big Twin with silicone  
 1937-73 45" Flathead  
 1937-48 74" /80" Flathead  
 1999-2000 Twin Cam 88 Cam Cover Gasket  
 BT OHV Knuckle Circuit Breaker Base  
 UL and 45 Circuit Breaker Base  
 1957-81 Oil Strainer  
 1954-Early 81 XL Cam Cover  
 1982-85 XL Cam Cover  
 1986-90 XL Cam Cover  
 2000-up XL Cam Cover  
 1991-up XL Cam Cover  
 2000-up XL Cam Cover w/Bead

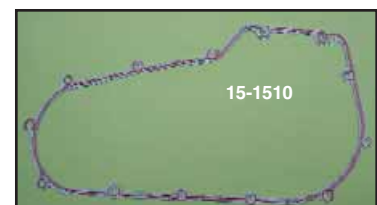
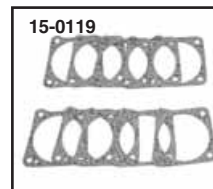
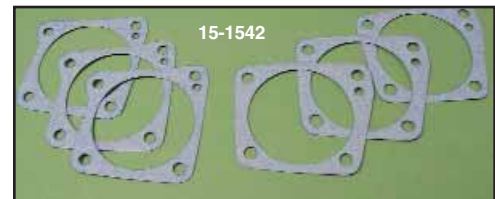
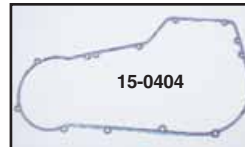
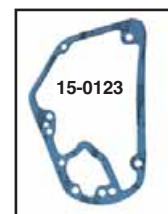
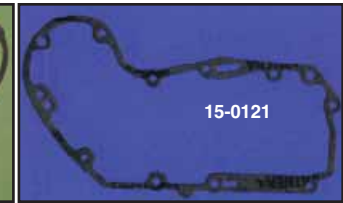
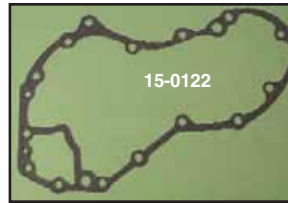
Late1979-E81 Upper O-Ring  
 Late1979-81 Upper O-Ring (oversized)  
 Late1979-81 Upper Quad Seal  
 Late1979-2000 Middle O-Ring  
 Late1979-E81 Lower O-Ring  
 Late1981-84 Lower Quad Seal  
 1984-2000 Lower O-Ring  
 1984-99 80" Evolution Upper O-Ring  
 1999-2000 Twin Cam 88 Upper O-Ring  
 1936-Early79 Small Cork  
 As Above Silicone  
 As Above Rubber  
 1948-Early79 Large Cork  
 As Above Silicone  
 As Above Rubber

Generator stud washer for 1911-85 FL  
 1937-48 Generator End Cover  
 1930-57 Generator Mount Gasket  
 1958-69 Generator Mounting  
 1930-64 Generator Bearing End  
 1980-86 Belt Drive Starter Housing to Primary  
 1980-86 Belt Drive Starter (between two housings)  
 1965-86 Starter Hole Cover with Kicker only  
 1980-85 Chain Drive Starter Housing Oil Deflector Plate  
 Late1965-88 Solenoid

1952-57 Tappet Oil Screen Plug  
 1952-92 Tappet Oil Screen Plug  
 1954-80 Oil Pump Cap Washer Blue Teflon  
 1937-59 W/WLA Body to Motor  
 1941-67 FL Oil Pump Body to Case (Mylar)  
 As Above Paper  
 Side valve Scavenger Pump Base  
 1968-80 Body to Motor, Mylar  
 1968-Early 80 Body to Motor, Paper  
 1941-Early50 Cover (Governor Fitted), Paper  
 1941-Early50 Cover, Black Paper  
 Late1950-67 Cover, Black Paper  
 1968-Early80 Cover, Black Paper  
 1968-Early80 Cover, Mylar  
 Late1980-91 Body to Motor, Mylar  
 Late80-91 Body to Motor, Black Paper  
 1992-99 80" Evolution Body to Motor, Black Paper  
 Late1980-91 Cover, Black Paper  
 Late1980-91 Pump Cover, Mylar  
 1992-99 80" Evolution Cover, Black Paper

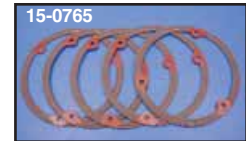
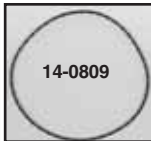
1939-48 Flathead Upper Guide Cover  
 1939-48 Flathead Lower Guide Cover  
 1936- 48 Tappet Block Fiber Washer  
 1929-68 Flathead Valve Spring Cover Seal  
 1926-73 45" Flathead Spring Cover  
 1930-73 Flatheads, Tappet Guide  
 1936-47 Overhead Valve Tappet Guide  
 1948-99 Rear Tappet Guide  
 1948-99 Front Tappet Guide  
 1948-99 Set  
 1999-2000 Twin Cam 88 Tappet Cover Gasket

2007-up Big Twin Inner Primary Mounting Bolt  
 1980-93 FXR/FLT Primary Cover (.030")  
 1980-93 FXR/FLT Primary Cover (.062")  
 1983-93 FXR/FLT Primary Cover (.062"), Beaded  
 As Above Metal with Foam Rubber Coating  
 1994-2006 FXR/FLT Primary Cover  
 As Above Metal with Foam Rubber Coating  
 2007-up FLT, Touring  
 2007-up FLT  
 1980-84 FXR/FLT Primary to Trans (large)  
 1980-84 FXR/FLT Primary to Trans (small)  
 1982-88 Rigid Mount Primary Cover 1/16" thick 9 hole  
 As Above 1/32" thick  
 Late1982-88 Rigid Mount 9 Hole Primary, Beaded  
 1989-93 Softail, Dyna Primary Cover (.062")  
 1989-93 Softail, Dyna Primary Cover, Beaded  
 1994-06 Softail, Dyna Primary Cover Beaded  
 As Above Metal with Foam Rubber Coating  
 1936-64 Primary Cover, cork  
 1965-80 FX/FL Primary Cover (8 hole)  
 1965-82 4 Speed, 8 hole Primary Cover Beaded  
 2006-up FXD Beaded, 2007-up FXST Primary Cover Beaded





# Gasket



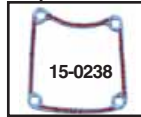
## DERBY COVER Gaskets

GB No.	James
15-1511	—
15-0125	15-0934
15-0882	—
—	15-1142
15-1249	—
15-1248	—
—	15-1279
15-0765	15-0701
14-0535	—
14-0809	—
15-1286	15-1224
15-0883	—
37-8868	15-1150
37-8931	15-1151
15-0177	15-0919

OEM
17369-06
25416-70
25416-70B
25416-70-C
25416-99D
25416-70C
—
25416-70X
25416-84
25416-99A
—
25416-99B
31433-84
31433-84A
60565-36

## Fits

2006-up FXD Derby  
1970-Early 84 Derby Cover (.030")  
1970-Early 84 with Bead  
1970-Early 84 Derby Cover (Cork, .030")  
1999-up Derby Beaded  
1970-98 Derby Beaded  
1970-98 Derby Molded Rubber  
1970-Early 84 Derby Cover Gasket, Beaded  
1985-98 Derby Cover O-Ring  
1999-up TC-88 Derby Cover Seal  
As Above Gasket with Silicone  
1999-up with Bead Gasket  
1984-98 Derby Cover Bolt Washer, Nylon  
1984 98 Primary Cover Bolt Washer with Seal  
1936-64 Derby Cover, Cork



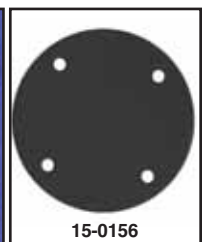
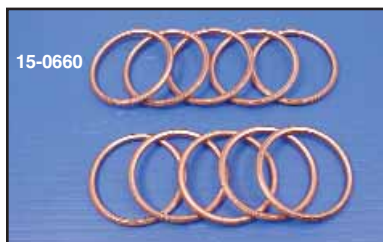
## INSPECTION COVER Gaskets

GB No.	James
15-0167	15-0922
—	15-0704
15-0238	15-0702
—	15-1202
—	15-1278
—	15-0916
15-0178	15-0920
—	15-0700
15-0179	15-0915
15-1217	15-0703
—	15-0465
15-0408	15-0180
—	15-1161

OEM
34906-79
34906-79A
34906-85
34906-85A
—
60518-65
60567-36
60567-65
60567-65C
60567-90
60567-90
60629-55
63859-95

## Fits

1980-84 FXR/FLT Inspection Cover (.030")  
1980-84 FLT/FXR Inspection Cover (.062"), Beaded  
1986-up FLT/FXR Inspection Cover with Bead  
1986-up FLT/FXR Inspection Steel Core, two side bead, .045", beaded  
As Above Metal with Molded Rubber  
1965-69 Starter Plate  
1936-64 Primary Inspection Cover, Cork  
1965-up 4 Speed, Dynaglide and Softail Inspection Cover (.062") beaded on two sides  
1965-up 4 Speed, Dynaglide and Softail Inspection Cover (.032")  
1965-up 4 Speed, Dynaglide and Softail Inspection Cover(.062") beaded on one side  
1965-up 4 Speed, Dynaglide and Softail Inspection Cover Metal with rubber coating  
1955-64 Inner Primary to Crankcase  
1994-up FXST/Dynaglide Inspection Cover Mounting Screw



## EXHAUST

GB No.	James
15-0267	—
15-0227	15-0712
15-0732	—
15-0696	15-0968
—	15-1076
15-0191	—
15-0197	—
15-0198	—
—	15-1074
15-0195	15-1073
15-0196	—
15-0660	15-1098

OEM
65324-83
65324-83A
—
65721-85
65826-90
65834-68
65834-68A
—
65834-68C
65834-68C
—

## Fits

1984-2000 Exhaust Port Mesh Type  
1984-2000 Graphite Exhaust Port Tapered  
As Above, 10 pack  
1985-94 FLT Muffler junction  
1991-2000 Dyna Glide Exhaust interconnect  
1966-84 Shovelhead (plain)  
1966-84 Shovelhead (all copper)  
As Above, 50 pack  
1966-84 Shovelhead Steel Core  
1966-84 Shovelhead Fire Ring™, 10 pack  
As Above, 50 pack  
1966-84 Shovelhead Copper Donut



## IGNITION COVER/DISTRIBUTOR BASE

GB No.	James
15-0149	15-1020
15-0153	15-1030
15-0154	15-1031
15-0155	15-1032
15-0156	15-1033

OEM
29550-55
32521-36
32591-70
32591-70
32591-80

## Fits

Magneto Cap  
1936-64 Distributor (base)  
1937-48 Flathead Circuit Breaker  
1970-79 Point Cover  
1980-99 Point Cover 4 hole



## TRANSMISSION

GB No.	James	OEM
14-0922	15-1129	6007
—	15-1272	As Above
15-0411	—	2261-31
15-0217	15-1143	25811-11
—	15-1116	26072-90A
—	15-1205	26072-90X
—	15-1240	26072-99
—	15-1117	26077-93
—	15-1206	26077-99
15-0685	—	33043-80
15-0157	15-1034	33196-79
15-0158	15-1035	33295-36
—	15-0595	33295-36X
14-0633	14-0826	34459-26
15-0331	15-0279	34825-41
15-0332	15-0280	34826-41
15-0159	15-1036	34552-52
15-0160	15-1037	34565-52
15-0161	15-1038	34824-36
15-0162	15-1039	34824-79
15-0166	15-1040	34904-79
15-0237	15-1041	34904-86C
15-1505	—	34904-86C
—	15-1231	34917-90A
—	15-1049	36025-36
15-0184	15-1070	67141-36

## 1999-UP TRANSMISSION GASKETS FOR TC-88, JAMES BRAND UNLESS NOTED.

GB No.	James	OEM
—	15-1129	6007
—	15-1116	26072-90A
—	15-1205	26072-90X
—	15-1240	26072-99
—	15-1117	26077-93
—	15-1206	26077-99
—	15-1041	34904-86
—	15-1118	34917-90A
—	15-1231	34917-90X
—	15-1232	34917-99
—	15-1257	34917-06X
—	15-1258	34917-06
—	15-1263	35607-06
—	15-1048	35652-79A
—	15-1207	35652-79X
15-1535	15-1259	35654-06-X
—	15-1260	35654-06F
—	15-1233	36801-79X
—	15-1230	36801-87X
15-1529	15-1261	36805-06X
—	15-1262	36805-06F
—	15-1155	37091-80
—	15-1120	62432-93
—	15-1275	63869-06

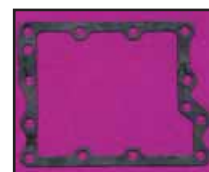
## GLIDE/FLT

GB No.	James	OEM
—	15-1118	34917-90A
—	15-1231	—
—	15-1232	34917-99
15-0213	15-1048	35652-79A/B
—	15-1207	35652-79X
15-1500	—	35653-98
15-0171	15-1049	36025-36
15-0172	15-1050	36801-79
15-0346	15-1233	—
15-0240	15-1051	36801-87B
—	15-1230	—
15-0225	15-1052	36821-68
—	15-1155	37091-80
15-1538	—	62423-90
—	15-1120	62432-93
15-0194	15-1158	62702-52
15-0184	15-1070	67141-36

# Gasket

## Fits

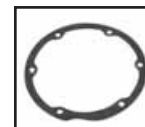
1980-up Transmission Drain Plug Nylon  
 Rubber Bonded Washer  
 1930-36 VL Top Cover  
 1952-85 Neutral Switch  
 1991-98 Dyna Glide Oil Pan  
 1991-98 Dyna Glide Oil Pan with Silicone Bead  
 1999-05 Dyna Glide Oil Pan with Silicone Bead  
 1993-99 FLT Oil Pan Transmission Housing  
 1999-2000 FLT Transmission Oil Pan Gasket  
 1980-97 Neutral Switch  
 Late 1979-86 4 Speed Side Shifter Shaft Cover  
 1936-86 4 Speed Kicker Cover  
 1936-86 4 Speed End Cover with Silicone  
 Leather Shifter Shaft Washer  
 1941-73 45" Top Cover  
 1941-73 45" Side Cover  
 1952-Early79 Shifter Cover  
 1952-Early79 Shifter Adapter Plate to Transmission  
 1936-Early79 4 Speed Shifter Cover Ratchet Lid  
 Late 1979-86 4 Speed Shifter Cover Ratchet Lid  
 1980-85 5 Speed Transmission Top Cover  
 1986-2000 5 Speed Transmission Top Cover  
 1986-06 Softail Top with Bead  
 1991-98 FXD Top Cover with Bead  
 Countershaft End Plug  
 1937-84 Speedometer Drive Unit



15-0161



15-0158



15-0159



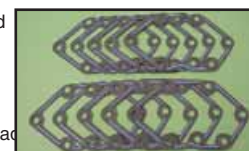
15-0160



15-0157



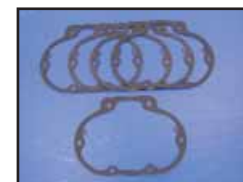
15-0240



15-0346



15-0172



15-1529



# Gasket



## GAS TANK/OIL TANK GASKETS

GB No.	James	OEM
14-0561	15-1065	61109-85
—	15-1066	61111-77
15-0756	—	61114-36
—	15-1156	61114-48
15-0183	15-1067	61116-65
15-0265	15-1068	62172-75
15-0676	15-1157	62270-32
15-0341	—	62617-52
15-0192	—	62628-36
15-0329	15-0200	62628-52
15-0328	15-0201	62628-66
—	15-1159	63809-48
—	15-1378	63809-48
—	15-1160	63848-48

## MASTER CYLINDER & RESERVOIR TOP GASKETS

Front	—	OEM
15-0188	—	45012-72
15-0204	—	45012-82
15-0242	—	45005-85
15-0250	—	45005-96
Rear	—	—
15-0202	—	41766-58
15-0203	—	42455-80
15-0248	—	42455-82
15-0540	—	42455-99
15-0242	—	45005-85

## TURN SIGNAL/FENDER LIGHT/ TAILLIGHT GASKETS

GB Stock	GB Beaded	OEM
15-0325	15-0291	5056-39
15-0695	—	59181-80
—	15-0289	59266-68
15-0303	—	67716-60A
15-0320	—	67734-35
15-0206	—	68025-73
15-0413	—	68121-47
15-0302	—	68121-55
15-0305	—	68122-47
15-0301	—	68122-55
15-0323	15-0208	68123-47
15-0322	15-0209	68123-55
15-0224	15-0207	68123-73
15-0718	—	68125-25
15-0719	—	68126-36
15-0724	15-0205	68459-47
15-0742	—	68121-68
15-0409	—	68124-39
15-0667	—	68127-42
15-0342	—	68226-97
15-0723	—	68456-35
15-0678	—	68456-89
15-0187	—	68481-73
15-0665	—	—
15-0709	—	—

Fits
1983-up Gas Cap
1977-82 Gas Cap
1936-47 Gas Cap
1941-82 Gas Cap Thin
1965-82 Gas Cap Left
1975-up Fuel Valve
1932-65 Fuel Strainer
1952-64 XL Oil Tank Cap
1936-64 Oil Tank Cap Copper Filled Style
1952-65 XL Oil Tank Cap
1966-82 Big Twin, 1966-79 XL Oil Tank Cap
1948-64 Oil Filter Cap
As Above Molded Rubber
1948-64 Oil Filter Cap Retainer

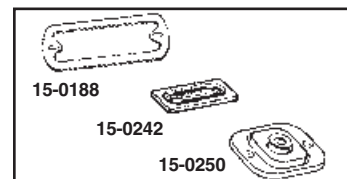
Year/Type
1972-81 Master Cylinder
1982-84 Master Cylinder
1985-95 Master Cylinder
1996-up Master Cylinder

1958-78 Master Cylinder Top
1979-84 Master Cylinder Top
1982-84 Reservoir
2000-up Reservoir
1985-95 Master Cylinder Top

Fits
1939-46 Beehive Mounting
Fender Tip Lens Front
1968-84 Front Fender Lamp
1960-84 FL Head Lamp Mounting Ring
1935-48 Head lamp Lens
1973-up Tail lamp Lens
1947-54 Tombstone License Plate Lens
1955-72 Tail Lamp Top Lens
1947-54 Tail Lamp Lens
1955-72 Tail Lamp Lens
1947-54 Tail Lamp Mounting
1955-72 Tail Lamp Mounting
1973-up Tail Lamp Mounting
1925-54 Tail Lamp Lens
1936-54 Tail Lamp Lens Inner
1935-49 Front Fender Lamp Mounting
1968-85 FL Turn Signal Lens
1939-46 Tail Lamp Mounting
1942-46 Tail Lamp Top Lens
1997-up Tombstone
Front Fender Lamp
License Plate Mounting Bracket
1973-85 FX-XL Turn Signal Lens
Cateye Tail Lamp Lens
Sparto Tail Lamp Mounting



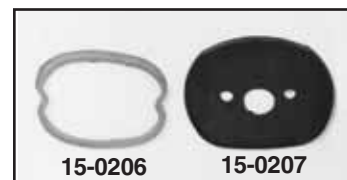
15-0756



15-0188

15-0242

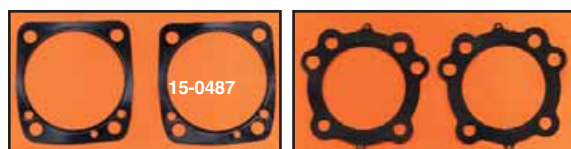
15-0250



15-0206

15-0207

# Base and Head Gasket



## GB Cylinder Base Gaskets for XL

Size	3 1/2" Bore	3 5/8" Bore	3 13/16" Bore	3 3/4" Bore
1986-99 XL, 883-1200				
.010	15-0487	—	—	—
.020	15-0488	15-0490	—	—
Head Gaskets 1986-99 XL				
.030	15-0475	15-0477	15-0479	15-0481
.040	15-0476	15-0478	15-0480	15-0482

Cylinder Gasket Set include head and base gasket for Evolution, with .040 head gasket.

15-0389	Metal Base
15-0392	Beaded

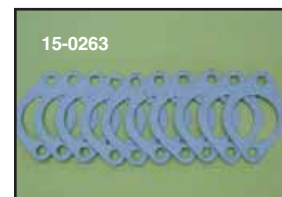
All Service Products which include gaskets, pins bolts, rollers, bulk packs, hardware will be available for replacement only. No credit will be issued.



# Gasket

## CARB, AIR CLEANER AND MANIFOLD, BIG TWIN

GB No.	James	OEM	Fits
14-0180	14-0625	27002-89	1988-2000 Carburetor to Intake
15-0139	15-1085	27023-71	1971-75 Bendix Intake to Carburetor
15-0142	15-1086	27077-78	1978-89 Keihin Intake to Carburetor
—	15-1144	27077-78X	1979-89 Intake to carburetor
15-0744	—	27205-57	Linkert DC Body
15-0745	—	27329-57	Linkert DC Nozzle Vent
15-0746	—	27374-57	Linkert DC Float Bowl Nut
15-0232	15-1088	27376-28	1928-65 Float Bowl Lock Nut Gasket
15-0321	—	—	1952-65 Linkert Float Bowl
15-0747	—	27376-57	Linkert DC Float Bowl
15-0748	—	27386-57	Linkert DC Valve Seal
15-0304	15-1089	27391-36	1936-65 Float Bowl (Linkert)
14-0926	—	27402-33	Linkert Needle Valve
—	15-1145	27403-71	1971-75 FX/FL Main Jet Washer
15-0336	—	27410-21	Linkert Carburetor to Manifold 3 Bolt
15-0288	—	27410-29	Manifold, 1"
15-0146	15-0964	27414-61	2-Hole Manifold
15-0264	15-1091	27410-39	Linkert 3 Bolt 1.25
15-0144	15-1092	27410-57	1966 Intake to Carb
15-0145	15-1093	27411-40	1940-65 Big Twin Linkert to Carburetor
15-0262	—	27412-48	1948-65 Big Twin Linkert Carburetor Spacer
15-0147	—	27646-71	1971-76 Bendix Float Bowl
15-0148	15-1146	29058-77	L1977-89 Air Cleaner to Carburetor
—	15-1016	29058-77A	L1977-89 Air Cleaner to Carburetor (.062")
15-0285	15-1017	29059-88	1990-99 80" Evolution Air Cleaner to CV Carburetor
—	15-1148	29059-88A	1990-99 80" Evolution Air Cleaner to Carburetor, Adhesive
—	15-1147	29059-88X	1990-99 80" Ev Air Cleaner to Carburetor, Steel Core
—	15-1199	29062-95B	1999-2000 Twin Cam 88 Carburetor Back Plate Gasket
—	15-0596	29095-95	1995-99 FL Air Cleaner Back Plate
15-0263	15-1018	29242-83	1984-89 Compliance to Head
15-0141	15-1019	29250-78	Insulator Block, Carburetor to intake, Keihin/Bendix
—	15-1149	29313-95	1995-2000 Air Cleaner backplate
15-1536	15-1200	29368-99	1999-2000 Twin Cam 88 Induction Module Gasket
15-1537	15-1201	29463-99	1999-2000 Twin Cam 88 EFI Filter Element Gasket
15-0676	15-1157	62270-32	Fuel Strainer



**Cometic AFM Gaskets** feature a chemically blown compound nitrite synthetic rubber bonded to an aluminum core that has a temperature resistance of over 2500 degrees F. AFM does not require gasket sealers or silicone bead and re-torque of mounting bolts is not required.

## Big Twin Primary Gasket and Seal Kits

VT No.	Fits
15-1300	2006-up Dynaglide, 2007-up FXST
15-1326	2007-up FLT
15-1301	1994-06 FXST, 1994-05 Dynaglide
15-1302	1989-93 FXST, FXD
15-1303	1994-06 FLT, FLHT, FXR
15-1304	1980-93 FLT, FLHT, FXR
15-1305	1965-88 FX, FL, FXST

## Big Twin Primary Gasket

15-1327	2007-up FLT
15-1306	2006-up Dyna, 2007-up FXST
15-1307	1989-06 FXST, 1989-05 Dyna
15-1308	1994-up FLT, FXR
15-1309	1980-93 FLT, FXR
15-1310	1965-88 FX, FL, FXST

## Big Twin Primary Inspection Cover Gasket

15-1311	1965-up FX, FL, FXST, 1989-05 Dyna
15-1312	1985-up FLT, FXR

## Big Twin Derby Gasket

15-1313	2006-up Dynaglide, 2007-up All Twin Cam (O-Ring)
15-1314	1999-up FXST, FLT, FXD (Replaces O-Ring)
15-1328	1984-98 All Big Twins (Replaces O-Ring)
15-1315	1970-83 FX, FL

## Big Twin Cam Cover Gasket

15-1316	1999-up Twin Cam
15-1317	1993-98 Evolution
15-1318	1970-92 Shovelhead & Evolution

## Sportster Primary Gasket and Seal Kits

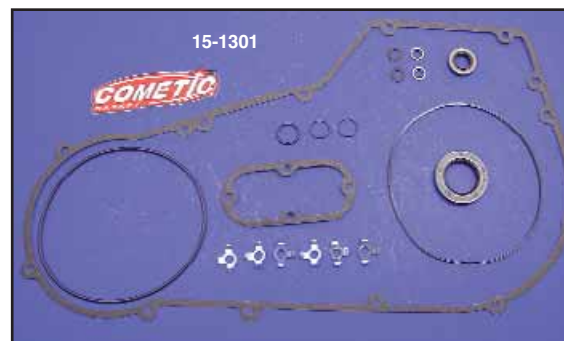
15-1319	2004-up All Models
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## Sportster Primary Gasket

15-1320	2004-up All Models
15-1321	51991-03 All Models
15-1322	1986-90 All Models

## Sportster Cam Cover

15-1323	2004-up All Models
15-1324	1991-03 All Models
15-1325	1986-90 All Models





14-0914	26434-91	1991-up XL Oil Pump
14-0165	26995-86A	1991-up XL Intake Manifold
14-0519	27060-55	1955-77 FL-FX-XL Intake Manifold
14-0915	27157-89	1990-up All Twins Carburetor Drain Screws
14-0560	27324-83	1983-87 Twins Keihin Carburetor Float Bowl
14-0520	27326-71	Bendix Main Jet
14-0521	27336-76	1976-78 FL-FX-XLCR Carburetor Flange
14-0559	27358-76	1976-78 Twin Keihin Carburetor Float Bowl
14-0564	27577-88	1987-91 All Twins Float Bowl
14-0937	27577-92	1992-up All Twins Float Bowl
14-0557	27889-78	L78-82 Twin Keihin Carburetor Float Bowl
14-0528	29603-48	1965 only FL Timer Housing
14-0949	31695-90	1990-up Twins Starter Motor Twins
14-0960	33340-90	1990-93 Big Twin Starter Shaft
14-0533	34036-80	1980-85 Big Twin 4 speed Shifter Cam
14-0572	43947-79	1981-99 FL Caliper Piston
14-0563	44059-83	1983-99 FXR-FXST-XL Front Caliper
14-0555	44152-77	1979-81 XL Rear Caliper Piston
14-0551	44277-74	1974-77 FX-XL Caliper Piston Front
14-0536	45443-86	1984-up FLT-FLHT Front Fork Upper Plug
14-0522	45780-52	1954-70 XL-FX Fork Tube Cap
14-0523	45845-77	Late 1977-85 FL, 1980-85 FXWG 1984-up FXST-FLST Fork Tube Plug
14-0524	45982-73	1973-86 FX-FXR-FXRT-FXRS-FXRT XL-XLS-XLX Slider Tube Cap
14-0558	45984-87	1987-up FXR-XL Fork Tube Plug
14-0901	49028-85T	Large O-Ring Pegs, 100 pack
14-0900	49031-84T	Small O-Ring Pegs, 100 pack
14-0902	49029-85T	Flat Kick Pedal, 100 pack
14-0903	49030-84T	Shifter Peg, 100 pack
14-0561	61109-85	1983-up Twins Gas Cap
14-0525	62094-40	1940-65 45", 61", 74" Gas Tank Shut-off
14-0530	62360-50	1950-65 Big Twin Fuel Line
14-0529	63529-50	1949-64 FL Filter Oil Line
14-0147	63529-57	Rocker Oil Line Seal, 100 pk
14-0526	63879-53	1958-82 Big Twin, 67-78 XLH Oil Filter Cap
14-0562	68425-86	1986-up Twins Turn Signal Lens Screw
14-0548	68451-86	1986-up FLT-FLST-FXRT Front Turn Signal
14-0549	68455-86	1986-up FXR-XL Front and Rear Turn Signal Lens, FXST-FLST-FXSTC Rear only

#### 100 Pack O-Rings

14-0904	11101	1966-84 Rocker Arm
14-0905	11101X	As above Oversize
14-0906	27060-55	1955-77 Manifold
14-0147	63529-57	Oil Line Seal
14-0907	11133	Lower Pushrod Cover
14-0908	11157	Upper Pushrod Cover
14-0901	49028-85T	Large O-Ring Pegs
14-0900	49031-84T	Small O-Ring Pegs
14-0902	49029-85T	Flat Kick Pedal
14-0903	49030-84T	Shifter Peg
VT No.	OEM	Description
14-0984	61326-95	Top Plate Cork Gasket
14-0985	61381-02	Top Plate Gasket
14-0986	61402-08	Top Plate Gasket
14-0987	61402-02	Top Plate Gasket
14-0988	61402-08	Seal, Top Plate
14-0989	75245-04A	Seal, Fuel Tank
14-0990	75249-04A	Seal, Fuel Tank
14-0991	75301-07	Seal, Fuel Pump, Plate
14-0992	11324	O-ring 7.00 x 1.50 MM
14-0993	11345	O-ring
14-0980	12068	Oil Seal
14-0994	27444-00	O-ring
14-0995	34990-08	Gasket, Chain Inspection
14-0996	62673-90	O-ring FXDS
14-0997	11120	O-ring Dipstick



## O-Ring

Sold in 10 packs unless noted.



VT No.	OEM	Fits
14-0500	11100	1957-85 XL Tappet Guide
14-0501	11101	1957-85 XL, 1966-86 Shovelhead Rocker Shaft
14-0148		1957-85 XL, 1966-86 Big Twin Shovelhead No Leak Rocker Arm Seals 1966-84 Shovelhead, 1957-85 XL Rocker Arm, 100 pk
14-0904	11101	As above Oversize, 100 pack
14-0905	11101X	1966-69 XLH Timer Housing
14-0527	11102	1957-66 XL, 1967-69 XLCH Clutch Gear
14-0502	11103	1966-82 74" & 80" Oil Tank Cap
14-0503	11105	1970-99 Big Twin Tappet Screen Plug 1971-78 XL Primary Cover Filler Cap
14-0504	11106	1966-71 XL, 1967-70 FL Carburetor Adapter
14-0505	11107	1986-90 XL Tappet Guide Mt Screw
14-0506	11110	1962-69 XL Tach Plug
14-0577	11114	1982-84 FL-FX Main Drive Gear
14-0507	11115	1965-85 FL-FX 4 Speed Trans Countershaft
14-0537	11116	1981-90 XLH Starter Motor Housing
14-0538	11117	1984-up FXR Shifter Lever Sleeve
14-0508	11118	1981-85 Big Twin, Quad, Flat Pushrod O-Ring Small
14-0509	11119	1967-70 XLH, 70 XLCH Clutch Gear
14-0510	11123	45" S.V. Valve Spring Cover
14-0511	11125	1970-82 74", 80" except FXB In. Prim.
14-0512	11132	1979-E81 74" Pushrod Middle 1984-up V2 Big Twin XL O-ring
14-0513	11133A	Late 1981-85 80" quad FLT Pushrod large
14-0514	11133	Late 1979-E81 74" and 80" Pushrod Low
14-0907	11133	As above, 100 pack
14-0515	11139	Late 1978-90 XL Primary Filler Cap
14-0539	11140	1984-up FLT Front Fork Air Control
14-0550	11145	1984-up V2 Big Twin, 1986-90 XL, quad Lower Pushrod Cover
14-0531	11147	1984-99 Big Twin Inner Chain Housing
14-0556	11148	1986-90 XL quad Oil Filter Mount
14-0540	11156	1984 FLT Front Fork Air Control Solenoid
14-0532	11157	1984-up V2 Big Twin, 1986-90 XL, O-Ring Upper Pushrod Cover
14-0908	11157	As above 100 pack
14-0541	11159	1984-85 FXST Oil Tank Fitting
14-0542	11162	1982-84 FXR-FLT Mainshaft Right
14-0534	11165	1984-up Big Twin 5-speed Quad Mainshaft Ball Bearing Clutch Side
14-0543	11166	1985-86 FXWG-FXEP 4 Speed Countershaft
14-0544	11167	1986-90 XL Tappet Guide, Upper
14-0545	11168	1986-90 XL Tappet Guide, Lower
14-0546	11170	1984-99 FLT-FXRT Front Fork Air Cap
14-0547	11171	1985-99 FLT-FXRT Front Fork Air Control Solenoid
14-0554	11173	1987-99 FLST Wheel Hub Cap
14-0910	11174	1987-94 FXR Fuel Tank
14-0911	11176	1991-99 XL Pushrod Anti-rotation
14-0552	11178	1989-up FLTCU-FLHTCU Radio knob
14-0553	11179	1982-up Big Twin Transmission Filler Plug
14-0916	11187	1987-up Big Twin, 86-up XL Clutch Cable End
14-0917	11188	1991-up XL Clutch Inspection Cover
14-0912	11190	1991-up XL Chain Inspection Cover
14-0913	11191	1991-up XL Pushrod Cover
14-0583	11201	1990-up FXST-FLST Shifter Lever
14-0974	11241	2006-up Main Drive
14-0800	11256	1992-99 Big Twin Oil Pump End Cap
14-0801	11270	1999-up TC-88 Cylinder Base
14-0802	11273	1999-up TC-88 Rocker Arm Support
14-0814	11286	1999-up TC-88 Cylinder Head Locating Dowel
14-0815	11288	1999-up TC-88 Oil Pump Outer
14-0816	11289	1999-01 TC-88 Cam Position Sensor
14-0817	11290	1999-up TC-88 Crankshaft Sensor
14-0803	11293	1999-up TC-88 Neutral Switch
14-0818	11297	1999-up TC-88 Upper Pushrod Cover
14-0819	11298	1999-up FLT Fork Air Control
14-0820	11301	1999-up TC-88 Cam Support Plate Plug
14-0933	17353-89	1999-up TC-88 Oil Pump Inner
14-0934	17354-89	1989-03 Rocker Box Lower
14-0535	25416-84	1989-03 Rocker Box Upper
14-0809	25416-99	1985-98 FX-FXE-FXR-FLT-FXST Clutch Cover
14-0570	25463-94	1999-up BT Clutch Cover
14-0516	26432-76A	1994-up XL Primary Derby (5 pack) 1977-85 XL Oil Pump Body
14-0517	26433-77	1986-up XL Cylinder Stud Insert 1977-85 XL Oil Pump Check Valve
14-0518	26434-76A	1986-90 XL Oil Filter Check Valve 1977-85 XL Oil Pump Cover



# Seal

14-0573



14-0925



14-0109



14-0256



14-0573

Seals are sold 5 pack unless noted other in U/M price list.

James	VT No.	OEM	Fits
—	14-0164	1400	1983-up Big Twin Evolution, TC-88,
—	14-0143	1404	1986-up XL Evolution Valve Guide, 10 pack
—	14-0144	1405	1954-85 XL Model Valve Guide Intake, 10 pack
—	14-0145	1408	1954-85 XL Valve Guide Exhaust 10 pack
—	14-0146	1427	1948-78 BT Valve Guide Intake-Exhaust 10 pack
—	14-0255		1979-85 BT Shovelhead Valve
—	14-0256		Guide Intake/Exhaust, 10 pk
14-0673	15-0221	6114	1948-84 Big Twin Teflon Valve Guide
—	14-0031	6156	1984-up Big Twin Teflon Valve Guide
—	14-0178	6375	1984-99 All Twins Rocker Cover Copper
—	14-0033	6377	1941-69 Big Twin Chain Oiler Adj Screw
—	14-0032	6581	1946-57 Big Twin Oil Press Switch
14-0674**	—	7019	1950-84 Big Twin Oil Pump Fitting
—	14-0100	11124	1954-78 Big Twin Oil Pump Relief Valve Plug
14-0600	—	As Above	1991-up XL Shifter Lever
14-0675	14-0556	11148	1954-up XL Cam Cover
14-0687	—		Double Lip
14-0601	14-0101	12002	1982-84 Big Twin Shifter Shaft
14-0602	14-0102	12010	Map Sensor 1999-up TC-88
14-0603	14-0106	12013A	1961-73 XL, 1961-69 FL Generator Cover
14-0604	14-0103	12014	1979-85 4 Speed Big Twin Foot Shifter Cover
14-0605	14-0104	12018	Late 1966-90 Big Twin 74"-80" Drive Gear
14-0606	14-0105	12021	1965-84 4 Speed Big Twin 74"-80" Clutch Nut
14-0607	14-0107	12023	1970-85 4 Speed Big Twin Inner Chain Housing
14-0608	14-0108	12026A	1967-70 XLH Clutch Gear
14-0676	—	12026A	1962-69 XL Magneto Mount Plate
14-0609	14-0918	12030	1970-99 74"-80" L Engine
14-0821	14-0919	12035A	As Above Double Lip
14-0821	14-0824	12035B	1991-99 5 Speed Trans Bearing
14-0611	14-0109	12036A	1991-06 Big Twin Mnsht 5th Gear
14-0612	14-0110	12043	As Above Double Lip Metal
—	14-0576	12044	1977-90 XL Oil Pump
14-0613	14-0111	12044A	1980-84 FLT-FXR Trans to Starter
14-0614	14-0149	12045	1980-84 5 Speed Main Drive Gear, MTL
14-0677	14-0825	12045	1980-84 FLT-FXR Main Drive Gear
14-0664	—	12047	1980-up 5 Speed Shifter Shaft
14-0615	14-0150	12049	Double Lip Metal Outside Diameter
14-0616	14-0157	12050	1980-81 FLT Wheel Bearing
14-0617	14-0158	12051	1984-90 XL Mainshft Sprocket
14-0618	14-0159	12052	1984-99 FXR-FLT, 91 XL Mainshaft Clutch Side
14-0619	14-0920	12053A	1984-88 Big Twin Inner Chain Housing Start Shaft
14-0665	14-0961	12066	1984-up Big Twin Inner Chain Housing Mainshft
14-0972	14-0962	12067A	1989-93 Big Twin Inner Chain Housing Start Shaft
14-0810	—	12068	1994-up Big Twin Inner Chain Housing Starter Shaft
14-0696	—	12074	1994-up Front Pulley
14-0697	—	12077	1999-up TC-88 Sprocket Shft
—	7411-2	24776-40	Main Drive Gear Outer
—	14-0177		2006-up Dynaglide, 2007-up Big Twin
14-0622	14-0171	25414-82	As Above Inner
14-0623	14-0114	26227-58	1936-54 Big Twin Engine Seal
14-0963	14-0925	26856-89	Replacement seal
14-0811	14-0805	26858-99	For above, each
14-0624	14-0165	26995-86B	1982-84 FLT Rear Chain Housing
14-0573	—	26995-97X	1958-76 XL, 1968-up Big Twin Oil Pump
14-0678	—	Oversize	1991-99 BT, 91-up XL Rocker Cover Umbrella
14-0689	—		1999-up TC-88 Umbrella
14-0625	14-0180	27002-89	1986-up Intake Manifold to
14-0626	14-0113	27062-78	Cylinder Head Evo & TC-88
14-0679	—	27385-76	As Above, Blue
14-0627	14-0168	29911-82	As Above
14-0628	14-0112	30145-46A	As Above Metal with Rubber Standard Size
14-0629	14-0156	31341-80	1989-up Evolution Carburetor to Manifold
14-0630	14-0115	33076-37	1978-85 Big Twin Shovelhead
14-0631	14-0116	34035-52	Intake Manifold to Cylinder Head Sleeve
14-0632	14-0117	34036-36	Low Speed Jet Plug 1976-up Keihin Carburetors
14-0635	14-0118	35151-52A	1982-84 XL Gen Gear End
			1958-69 74", 1958-81 XL Generator, Large
			1980-84 FXB, 84-85 FXWG Starter Shaft Housing
			L1937-84 FL-FX 4 Speed Starter Crank
			1952-85 XL Shifter Shaft
			1941-79 Big Twin Shifter Cam Shaft
			1952-74 XL Engine, 1952-Early 74 XL Transmission

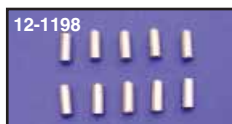
Seals are sold 5 pack unless noted U/M price list. \*Note: Metal Outside Diameter

James	VT No.	OEM	Fits
14-0636	14-0119	35151-74	Late 1974-up XL Engine
14-0637	14-0122	35230-39	Late 1974-up XL Transmission
14-0638	14-0123	35231-36	1941-79 74" and 80" Transmission
—	14-0186	As Above	Mainshaft Double Lip
14-0639	14-0160	37101-84	1937-79 Transmission Mainshaft Cork Washer
14-0695	—	37107-06	Rubber
—	14-0126	37335-41	1984-86 FXR-FLT Clutch Release Lever
14-0640	14-0124	37337-36	1986-up XL Primary Cover Shift Shaft
14-0641	14-0125	37339-53	2006-up XL Primary Cover
14-0643	14-0127	37531-56B	1941-73 45" Clutch Pushrod
14-0644	14-0128	37740-57	1937-67 FL Clutch Pushrod Cork
14-0645	14-0129	37741-67	1954-70 XL Clutch Rod
14-0646	14-0130	37741-82	1955-69 XL Transmission Clutch Gear
14-0822	—	37741-82	Late 1957-66 XLH-XLCH, 1967-69
14-0647	14-0131	41210-55	XLCH Clutch Hub Oil
14-0648	14-0167	45378-87	1967-70 XLH Clutch Hub
14-0649	14-0162	45387-83	1979-81 Big Twin Transmission Mainshaft
14-0650	14-0133	45400-75	1982-85 Big Twin 4 Speed Transmission
14-0651	14-0132	45733-48	Mainshaft
14-0652	14-0134	45843-77	As Above Double Lip Rubber Outside Dia
14-0653	14-0135	45852-48	1955-72 XL, 1967-71 Big Twin Wheel Hub
14-0654	14-0163	45875-84	1987-up FXLR-FXRSE Fork Slider
14-0655	14-0136	45927-73	1983-up FXR-FXRSE-FXRT,
14-0656	14-0137	45975-71	1984-up XL Fork Slider
14-0657	14-0138	47519-58	1975-83 XL-FX Fork Slider, Showa
14-0658	14-0139	47519-72	1949-77 FL Model, 1987-up
14-0659	14-0140	47519-83A	FLST-FXST Fork Tube Cap
14-0660	14-0141	60641-74	1977-83 FL, 80-86 FXWG Fork Slider
40-9835	—	63525-92	1948-77 FL-FLH Fork Slider
40-9833	—	63528-92	84-up FXST, 85-up FXWG,
14-0662	14-0147	63529-57	1987-up FLT
14-0966	—	67096-87	1973-74 FX-XL Fork Slider
14-0944	—	67098-87	1971-72 FX-XL Fork Slider
14-0947	—	67118-87	1973-82 FX Rear Wheel,
14-0663*	14-0682*	83162-51	1973-82 FL Front/Rear Wire
14-0680	14-0142	83162-51	wheel (Double lip)
			1972-82 FX Front and Rear
			Wheel Seal, 1973-82 FL
			Front/Rear Mag Wheel
			1983-99 FX-XL Front or Rear
			Wheel (Double lip)
			1974-84 FX-74" All models
			Except FXWG, Shifter Shaft
			1992-99 Big Twin Oil Line Feed Tube
			1992-99 Big Twin Oil Filter Tube
			1957-85 XL, 1966-85 Big Twin
			Rocker Oil Line
			1987-94 FLT Speedometer Drive
			1987-94 FXR-Dynaglide-XL
			Speedometer Drive
			1987-94 FXST-FLST Speedometer
			Drive
			1971-99 74"-80" All Cam
			Cover Single Lip
			As Above Double Lip





## Pin



**Dowel Pins-Roll Pins.** Special pins in 25 packs. Check factory parts book for more applications.

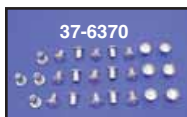
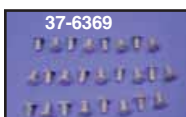
VT No.	OEM	Fits	Use
12-1198	221	1990-up	Primary
12-1176	255	1971-76	Solenoid
12-1175	271	1941-up 74, 1954-up XL	Cam
		1931-up 45"	
12-1184	275	1941-up Big Twin	Cam Case
12-1185	327	1941-up Big Twin	Gear Case
12-1215	328	1980-up	Trans
12-1216	329	1980-up	Starter
12-1217	332	1980-up	Starter
12-1173	333	1937 UL and 45	Oil Strainer, 10 pack
		1957-81 XL	
12-1174	334A	1965-up FL-FXE	Starter
12-1219	336	1979-up	Transmission
12-1153	358	1970-83	Cam Cover
12-1172	375	1941-up Big Twin	Transmission
12-1166	377	1930-up Big Twin	Cam Cover
12-1177	600	1979-up	Solenoid
12-1178	601	Shifter Cam	Solenoid
12-1160	603	1976-84 Big Twin	Rotor
12-1218	609	FXR-FLT	Dowel
12-1181	614, 640	1971-Early 75 Big Twin	Solenoid
12-1163	615	1970-78 All	Points
12-1164	620	1970-78 All	Points
12-1162	623	1970-78 All	Points

**Cotter Pins** are zinc plated, sold in 100 pack.

VT No.	OEM	Size
37-8660	510	1/16" — 1/2"
37-8795	511	5/32" — 1 1/4"
37-8659	512	1/16" — 5/8"
37-9042	515	1/16" — 3/4"
37-8786	528	3/32" — 5/8"
37-8787	531	3/32" — 7/8"
37-8661	534	3/32" — 1"
37-8788	513	3/32" — 1 5/16"
37-8789	550	1/8" — 5/8"
37-8790	559, 520W	1/8" — 1 1/4"
37-8663	566	3/16" — 1"
37-0747	Parkerized	1/16" — 1/2", 50 pk
37-0749	Parkerized	3/32" — 1", 50 pk



## Rivet



**Replacement Fender Rivets** fit all FL front and rear fenders and FX front fenders, 25 pack.

VT No.	Fits
37-6368	Big Twin Fender Brace
37-6369	Big Twin Fender Top
37-6370	FX Front, 1973-up Stainless



**Clutch and Brake Brass Rivets.**

VT No.	OEM	Type	Use	U/M
37-8805	—	Short 4-41/2	Brake	100 pack
37-8806	41871-31	Long 4-5	Brake	100 pack
37-8807*	8226	Short 7-4	Clutch	100 pack

\*Note: For clutch hub friction disc.



**Fiberglass Saddlebag Rivets**, pack of 50.

VT No.	OEM	Length
37-0566	90965-63	5/16"
37-0567	90966-67	1/4"
37-0568	90967-64	3/8"

## Seal



**Big Twin Left Side Engine Case Seals**

VT No.	#	OEM	Year	Model
7411-2	A	24776-40	1936-54	61-74-80
14-0965		24031-55	1955-68	OE type
7410-1	C	24031-55	1955-68	Colony
7410-1-OS		Oversize	1955-68	Colony (+.002)
7410-1-US		Undersize	1955-68	Colony (-.002)
14-0177		Seal only	For above	
14-0185	B	24031-69	1969 only	Big Twin
14-0108	B	12026B	1970-99	Big Twin, 5 pack
14-0580	B	12026-B	1970-99	Big Twin, 5 pack
14-0810	B	12068	2000-up	TC-88
14-0980		12068	2000-up	TC-88

**Note:** 7410-1, 7410-55 area screw-in insert with integral seal. 14-0965 is stock type screw-in without seal. 7411-2, 8211-2 both include seal, spacer & snap ring.

VT No.	OEM	Description
14-0984	61326-95	Top Plate Cork Gasket
14-0985	61381-02	Top Plate Gasket
14-0986	61402-08	Top Plate Gasket
14-0987	61402-02	Top Plate Gasket
14-0988	61402-08	Seal, Top Plate
14-0989	75245-04A	Seal, Fuel Tank
14-0990	75249-04A	Seal, Fuel Tank
14-0991	75301-07	Seal, Fuel Pump, Plate
14-0992	11324	O-ring 7.00 x 1.50 MM
14-0993	11345	O-ring
14-0980	12068	Oil Seal
14-0994	27444-00	O-ring
14-0995	34990-08	Gasket, Chain Inspection
14-0996	62673-90	O-ring FXDS
14-0997	11120	O-ring Dipstick



**Krommets** are available in traditional gold, chrome type or 10 point, 10 pack, 1/4" — 20 thread.

VT No.	Item
37-1954	Star Washer
37-0869	1 1/8" Outside Diameter Rubber Washer for Above
37-0503	Chrome Rocket with Fins
37-0501	Chrome Krommets
37-0502	Gold Krommets

**Krommets** feature 1/4 x 20 studs unless noted for decorative mounting. Available in 5 packs unless noted.

VT No.	Item
37-9076	Chrome Skull
37-9077	Gold Skull
37-2999	Chrome Skull, large, 5/16 — 18, no stud
37-9096	Chrome Skull, large 1/4 — 20, stud
37-9297	Chrome Skull large 5/16 — 18, stud
37-9107	Chrome Skull 10/32, no stud, 10 pack
37-9218	Skull Valve Stem Cover, pair
37-1529	License Plate Skull Chrome Small, 1 1/8 x 1 1/8
37-1530	License Plate Skull Chrome Large, 1 1/4 x 1 1/4



## Stud



**Factory Type Studs** for stock applications.

VT No.	OEM	Fits
12-1197	11733	1984-up FX Transmission Stud Set
12-1187	16715-83	1985-up Evolution Exhaust, 5 pack
12-1192	16830-29	1929-up 45 Cylinder Base Set
12-2113	16830-54	1980-up Big Twin Inner Primary, Set
12-2100	16831-30	1930-77 Big Twin Cylinder Base Set
12-1188	16831-83	1985-up Evolution Top Mount
12-2101	16837-78	1978-84 Big Twin Cylinder Base Set
12-2107	16864-48	1948-84 Big Twin Top Mount 4 pack
12-2114	17647-48	1948-65 Panhead Rocker
9917-8	17647-48	1948-65 Panhead Rocker Arm
12-2106	17506-66	Shovelhead Rocker Box Cover Set
	17508-66	1 Head
	16864-48	10 piece Total
12-2524	Sifton	As Above
8741-19	24819-36	& 24820-36, 1936-67 Big Twin Oil Pump Set, Cadmium
12-2109	24823-80	1965-up Big Twin Kick Cover Set
12-2126	24824-67	1962-70 Carburetor 3/8"
12-1191	24914-58	1958-64 Big Twin Breather
12-2127	24253-78	1978-85 Carburetor, 5/16"
12-2110	29254-78	1978-89 Carburetor Mount, 5/16"
12-2099	33298-36	1936-64 Big Twin Kick Cover Set
	33298-65	1965-77 Carburetor, 5/16"
12-2105	34723-47	1948-84 Big Twin Oversize Transmission, 4 pack
12-2104	34724-36A	1948-84 Big Twin Transmission Mount, 4 pack
12-2112	34725-26	1926-73 45 Transmission Case
37-6366	42301-79	1979-84 Big Twin Master Cylinder Mount, each
8813-4	45840-48	1949-76 Glide Leg, pair
8826-6	45998-73	1977 up Glide Leg, pair
	72341-48	1973-up FX Leg Stud, pair
12-2123	61605-36	1936-83 Rear Big Twin Tank Mount
8823-10	72341 48	1948-55 Big Twin Coil Mount, pair
8824-8	72341-56	1956-82 Big Twin Coil Mount, pair

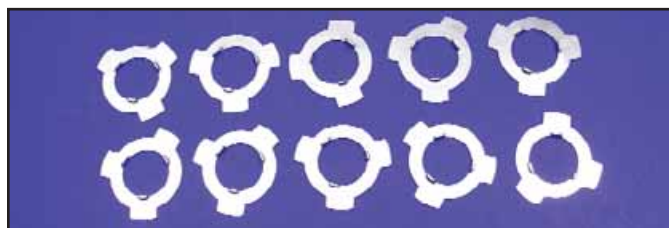
## Key



**Keys.**

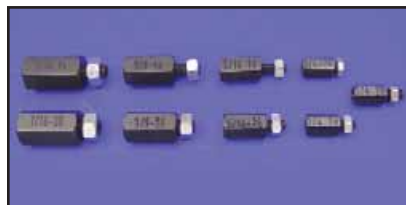
VT No.	OEM	Fits
12-0213	11204	1980-85 XL Rear Intake Came
12-0209	11218	1981-90 XL-Big Twin Gear Shaft
		1981-90 XL-Big Twin Crank Pin
12-0215	11219	1988-99 XL Oil Pump Drive Gear
12-0216	11220	1941-81 Big Twin, 1954-81 XL Gear Shaft
12-0200	23985-12	1954-81 XL, 1930-54 Big Twin Sprocket Shaft
12-0201	23985-18	1941-81 Big Twin, 1954-81 XL Gear Shaft
12-0202	23985-54	1954-90 Big Twin Gear Shaft Pinion
12-0203	23985-56	1956-80 Big Twin Sprocket Shaft
12-0204	26340-36	1941-67 Big Twin Oil Pump Gear
12-0214	26341-37	1937-73 45", 62-71 XL Oil Pump Retainer Half
12-0205	26348-15	1971-90 Big Twin Oil Pump Gear
		1972-76 XL Breather Valve Gear
		1975-86 Big Twin Pinion Shaft
12-0206	33393-50	1941-85 Big Twin Starter Clutch
12-0207	35175-38	1941-77 Big Twin Transmission Sprocket
12-0211	35196-26	1926-73 45" Transmission Sprocket
12-0208	37523-15	1941-84 Big Twin Clutch Hub
12-0212	37523-85	1985-90 Big Twin Clutch Hub
12-0210	40390-54	1954-60 Big Twin Compensator Sprocket

## Lock Tab

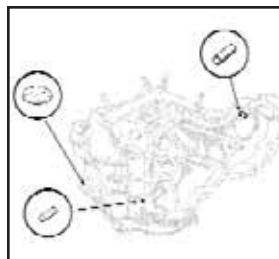


**Replacement Lock Tabs.**

VT No.	OEM	Fits
17-0918	7044A	Pinion Shaft 1979-up XL Gear End
17-9222	7402	1980-84 FLT-FXR Primary
17-0978	23970-36	Crank Pin 1936-40 61"
17-0914	23971-41	Crank Pin 1941-53 Big Twin, 1957-80 XL
17-0927	23971-54	Crank Pin 1954-80 Big Twin
17-0922	23982-12	45" Crank Pin 1929-73
17-0913	24015-36A	Pinion and Sprocket Shaft 1936-71 Big Twin
		Pinion only 1972-80 Big Twin, 1957-80 XL
17-0929	24016-29	Pinion/Spkt Shaft 1929-73 45" Side Valve
17-0917	24018-72	Sprocket Shaft Flywheel 1972-80 Big Twin
17-0908	25550-57	Cam Gear 1957-up Big Twin
10-1254	25554-84	Cam Gear .045 1957-up Big Twin
17-0921	25551-58	Cam Thrust Plate All 1958-up XL
17-0942	31479-65	1965-69 Big Twin Inner Primary
17-0937	—	1970-up Big Twin Inner Primary
17-0902	33082-16	Kicker & Countershaft 1941-84 Big Twin 4-Speed
17-0930	33125-89	Big Twin Starter Shaft 1989-up
17-0907	33197-79	Plunger Body Bolt 1978-84 Big Twin 4-Speed
17-0928	33318-85	Inner Primary 1985-up Big Twin
17-0905	33335-79	Transmission Sprocket 1980-83 FLT
17-0911	33362-52	Kicker Shaft All XL 1957-81
17-0903	33396-39	Kicker Clutch Gear 36-84 BT 4-Speed
17-0916	34066-52	Cam Follower 1952-78 Big Twin
17-0923	34067-52	Shifter Cam Retainer All 1957-85 XL
17-0919	34069-71	Shifter Cam 1954-up XL
17-0906	34180-33	Shifter Forks 1936-84 Big Twin 4-Speed
17-0943	34747-65	Transmission Plate 1965-84 Big Twin
17-0900	35050-40	Mainshaft Bearing 1940-84 Big Twin 4-Speed
17-0910	35050-52	Transmission Sprocket All 1952-up XL
17-0933	35216-26	45" Transmission Sprocket 1929-73
17-0901	35216-36	Transmission Sprocket 1936-84 Big Twin
17-0925	37462-41	45" Clutch Hub Nut 1936-84
17-0904	37503-41	Clutch Hub Nut 1941-84 Big Twin
17-0912	37533-52A	Clutch Hub All 1957-84 XL
17-0915	39996-65	Primary Adjuster 1965-up Big Twin
17-0934	40251-91	Pulley Lock Tab
17-0935	42575-30	Mechanical Brake Shaft 1936-57 Big Twin
17-0924	45717-63	Stem Nut 1960-85 FL's
17-0936	45752-50	Adjustable Fork Top Clamp
17-0909	47513-58	Swing Arm Bolt 1958-84 Big Twin
17-0920	47525-52	Swing Arm 1952-80 XL
17-0941	59166-80	FL Front Fender
17-0926	—	Transmission Lock Kit All Big Twin
39-0155	71069-47	Dash Stud L1947-67 Big Twin
49-2531	87136-36	Side Car Mount Lock Tab, 5 pack



**Stud Installer Set.** 9 Piece fits 1/4, 5/16, 3/8 and 7/16.  
**VT No. 2398-9**



**Hardware for Early Cases,** 5 pack.

VT No.	Size
12-0599	1/2" Welch Plug
12-0595	9/16" Welch Plug
12-0596	3/8" Welch Plug
12-0598	1/4" Welch Plug
12-0623	.619 Welch Plug
12-1166	Timing Cover Pin



# Snap Cap™ Easy to Install!!

*Walt Helling*

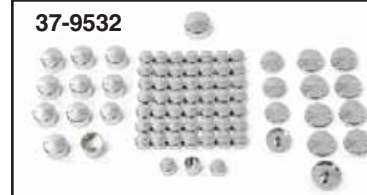


## Chrome Bolt Cap Cover Kit

VT No.	Model	Kit Quantity
<b>Touring</b>		
37-9527	1999-06	83
37-9525	2009-up	111
37-9526	2007-08	75
37-9539	2009-up	126
37-9540	1999-08	148
<b>Dyna</b>		
37-9541	1999-up	156
37-9528	2006-up	76
37-9529	1999-05	86
<b>Softail</b>		
37-9543	1999-up	175
37-9530	2007-up	81
37-9531	2000-06	87
37-9536	2009-up	125
<b>Engine</b>		
37-9535	TC-88	79
<b>Sportster</b>		
37-9532	2004-up	77
37-9534	2004-up Engine	63
37-9533	1984-03	74
37-9544	1984-03	109



- Snap On
- Tight Fit
- Easy Installation



These new bolt cover kits will make any bike look great and are also for custom builders use. Easy to install these new kits have beautifully designed pieces to cover the raw OE bolt heads on engine, transmission, primary and more, each kit includes detailed instruction for installation on each model as listed, all covers in each kit are individually packed and numbers for identification. installation has never been easier.



## 100 Pieces!



**Chrome Cap Assortment** includes 100 piece each 1/4", 5/16" and 3/8" caps.

**VT No. 37-1505**

**Chrome Pasties** are allen head bolt covers which install with a set screw for positive hold. Sold in pairs, for screw thread size listed.

VT No.	Size	U/M
37-0961	1/4"	10
37-8923	1/4"	2
37-8925	3/8"	2
37-0962	3/8"	4 piece set



**Chrome Handlebar End Plugs** are accessorized with jewels and skulls. Sold in pairs.

**VT No. Type**

37-8972 Sapphire Jewel

28-0618 Plain Chrome, 10 pack

# Chrome Cap



**Chrome End Caps for Allen Bolts** fit 1/4", 5/16" and 3/8" allen bolts (thread size). Available in an assortment tray with 100 of each and in refill packs of 10 or 50 packs.

VT No.	Item	Quantity	Material
37-9197	End Plug Assortment	300	Steel
37-9198	1/4" Refill Bag	100	ABS
37-9199	5/16" Refill Bag	100	ABS
37-9200	3/8" Refill Bag	100	ABS



**Press in Caps** for allen screws.

VT No.	Size	Qty
2164-100	1/4"	100
2165-100	5/16"	100
2166-100	3/8"	100

**Snap Caps™** snap on knurled allen screws for ease of installation. Packs of 25 or 100.

100 pack	25 pack	Fits
37-1502	37-1526	1/4"
37-1503	37-1527	5/16"
37-1504	37-1528	3/8"

300 Pieces  
37-1505 —

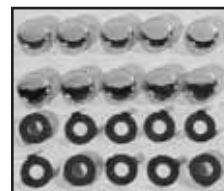
Assortment

- Snap On
- Tight Fit
- Easy Installation
- Universal Use



**Chrome Hole Plugs** snap in as replacements.

VT No.	OEM	Use/Model
37-8349	60650-54A	1955-64 Primary Big Twin
14-0707	O-Ring	1955-64 Primary Big Twin
28-0618	56238-62	1962-up Handlebar Grip
37-8994	Stainless	1962-up Spotlight Bar
28-1500	67830-59	Visor Plug
37-0526	68796-88	1988-up FXSTS Spotlamp Bracket
37-9304	68797-68A	1968-84 Big Twin Swing Arm Frame



**Chrome Hide-A-Bolt Caps** is a 13/16" chrome cap with a snap on base which mounts under bolt head, up to 3/8" diameter, 10 pack.

**VT No. 37-0870**



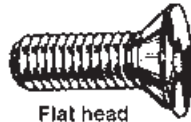
# Chrome and Zinc Plated Bolt

**Chrome Plated Bolts** are sold in 10 packs.

**Zinc Plated Bolts** are sold in 25 packs.



Button head



Flat head



Socket cap



Hex cap

Size	CHROME		CHROME		CHROME		CHROME		ZINC	
	Allen Button Head		Allen Flat Head		KNURLED Allen Socket Cap		Hex Cap Bolt		Hex Cap Bolt	
	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE
1/4 — 1/2	37-8700	37-8725	37-0153	37-0106	37-8356	—	—	—	—	—
1/4 — 5/8	37-8701	37-8726	37-0154	—	37-8300	37-8324	37-8602	37-8573	37-0600	37-0628
1/4 — 3/4	37-8702	37-8727	37-0155	37-0107	37-8301	37-8325	37-8603	37-8574	37-0601	37-0629
1/4 — 7/8	37-8703	37-8728	37-0156	—	37-8302	37-8326	37-8604	—	37-0602	37-0630
1/4 — 1	37-8704	37-8729	37-0157	37-0108	37-8303	37-8327	37-8605	37-8576	37-0603	37-0631
1/4 — 1 1/4	37-8705	37-8730	37-0158	37-0109	37-8304	37-8328	37-8606	37-8577	37-0604	37-0632
1/4 — 1 1/2	37-8706	37-8731	37-0159	37-0110	37-8305	37-8329	37-8607	37-8578	37-0605	37-0633
1/4 — 1 3/4	37-8707	—	37-0160	—	37-8306	37-8330	—	—	37-0606	37-0634
1/4 — 2	37-8708	—	37-0161	—	37-8307	—	37-8609	—	37-0607	37-0635
1/4 — 2 1/4	37-8709	—	—	—	37-8308	—	—	—	37-0608	37-0636
1/4 — 2 1/2	37-8710	—	37-0163	—	—	—	—	—	—	—
1/4 — 2 5/8	37-8738	—	—	—	—	—	—	—	—	—
5/16 — 1/2	37-8711	37-8732	37-0164	37-0114	—	—	—	—	—	37-0550
5/16 — 5/8	—	37-8798	—	—	37-8309	37-8331	37-8611	37-8582	37-0609	37-0637
5/16 — 3/4	37-8712	37-8733	37-0165	37-0115	37-8310	37-8332	37-8612	37-8583	37-0610	37-0638
5/16 — 7/8	—	—	37-0166	—	37-8311	37-8333	37-8613	37-8584	37-0611	37-0639
5/16 — 1	37-8713	37-8734	37-0167	37-0116	37-8312	37-8334	37-8614	37-8585	37-0612	37-0640
5/16 — 1 1/4	37-8714	37-8735	37-0168	37-0117	37-8313	37-8335	37-8615	37-8586	37-0613	37-0641
5/16 — 1 1/2	37-8716	37-8736	37-0169	37-0118	37-8314	37-8336	37-8616	37-8587	37-0614	37-0642
5/16 — 1 3/4	37-8717	37-8737	37-0170	—	37-8315	37-8337	37-8981	—	37-0615	37-0643
5/16 — 2	37-8718	—	37-0171	—	37-8316	37-8338	37-8617	—	37-0616	37-0644
5/16 — 2 1/4	—	—	—	—	37-8317	37-8339	37-8618	37-8590	37-0617	37-0645
5/16 — 3 1/2	—	—	—	—	37-8462	—	—	—	—	—
3/8 — 3/4	37-8719	37-8739	37-0173	37-0122	37-8318	37-8340	37-8619	37-8591	37-0618	37-0646
3/8 — 7/8	37-8355	—	—	—	—	—	—	—	—	—
3/8 — 1	37-8720	37-8740	37-0174	37-0123	37-8319	37-8341	37-8620	37-8592	37-0619	37-0647
3/8 — 1 1/4	37-8721	37-8741	37-0175	37-0124	37-8320	37-8342	37-8621	37-8593	37-0620	37-0648
3/8 — 1 1/2	37-8722	37-8742	37-0176	37-0125	37-8321	37-8343	37-8622	37-8594	37-0621	37-0649
3/8 — 1 3/4	37-8723	37-8743	37-0177	—	37-8322	37-8344	37-8623	37-8595	37-0622	37-0650
3/8 — 2	37-8724	37-8744	37-0178	—	37-8323	37-8345	37-8624	37-8596	37-0623	37-0651
3/8 — 2 1/4	—	—	—	—	—	37-8346	—	—	—	—
3/8 — 2 1/2	—	—	—	—	37-8352	37-8347	—	—	—	—
3/8 — 16 — 3 1/2	—	—	—	—	37-8353	—	37-8682	—	37-8658	—
7/16 — 1	—	—	—	—	—	—	—	37-8597	37-0624	37-0652
7/16 — 1 1/4	—	—	—	—	—	—	37-8625	37-8598	37-0625	37-0653
7/16 — 1 1/2	—	—	—	—	—	—	37-8626	37-8599	37-0626	37-0654
1/2 — 1 1/2	—	—	—	37-0891	—	—	—	—	—	—
1/2 — 2	—	—	—	—	—	37-8351	—	—	—	—
1/2 — 2 1/4	—	—	—	—	—	—	37-8627	37-8600	37-0627	37-0655
1/2 — 2 1/2	—	—	—	—	—	—	37-8980	37-8601	37-0796	37-0656
1/2 — 2 3/4	—	—	—	—	—	—	37-0793	37-0795	—	—
1/2 — 3 3/4	—	—	—	—	—	—	—	—	—	—





# Spacer

## Zinc Spacers

VT No.	ID	OD	L
37-0469	1/4	15/32	5/32
37-0404	1/4	9/16	3/4
37-0405	1/4	9/16	3/4 <sub>1</sub>
Black			
37-0473	5/16	1/2	1/2
37-0406	5/16	5/8	1/4
37-0407	5/16	7/8	3/8 <sub>1</sub>
Black			
37-0428	5/16	3/4	1/4
37-0408	5/16	3/4	1/4
37-0409	5/16	3/4	1/2
37-0410	5/16	5/8	3/8
37-0411	5/16	7/8	3/8
37-0412	5/16	5/8	3/4
37-0413	5/16	5/8	1 1/8
37-0454	5/16	1/2	5/8
37-0455	5/16	1/2	1/2
37-1019	5/16	1/2	1 5/16, Black
37-0984	5/16	1/2	2 1/4, Black
37-0458	3/8	3/4	5/8
37-0414	3/8	1	1
37-0430	3/8	1	1 1/4
37-0415	3/8	5/8	1 1/8, Cadmium
37-0416	3/8	1	1 1/2
37-1018	3/8	1	1 5/16, Black
37-0417	25/64	1	1 1/2
37-0954	3/8	5/8	1/2
37-1210	7/16	1 1/8	1
37-0431	1/2	5/8	1 1/4, Black
37-0418	1/2	1	1 1/2
37-0439	1/2	3/4	1
37-0420	1/2	3/4	2 1/4
37-0421	5/8	1	1 1/4
37-0432	25/64	3/4	1 1/2, Zinc Spacer

## Chrome Steel Spacers.

Pack of 5.	VT No.	ID	L	OD
	37-0447	1/2	1 1/4	5/8
	37-0459	1/4	1/8	5/8
	37-0460	1/4	1	5/8
	37-0462	5/16	1/4	5/8
	37-0463	5/16	3/8	5/8
	37-0464	5/16	1/2	5/8
	37-0465	5/16	3/4	5/8
	37-0466	3/8	3/8	3/4
	37-0467	3/8	3/4	3/4
	37-0445	3/8	1	5/8
	37-0468	3/8	1	3/4

## Aluminum

ID	OD	L
37-0422	1/4	5/8 — 5/8
37-0423	5/16	1 1/16 — 7/16
37-0424	3/8	1 — 7/8
37-0425	3/8	5/8 — 1 1/8

## Chrome Steel Spacer 10 pack.

VT No.	ID	OD	L	VT No.	ID x OD x L
37-0433	5/32	1/4	1/2	37-8635	5/16 — 1/2 — 17/32
37-0457	5/32	1/4	1/2	37-0400	5/16 — 3/4 — 1
37-8628	1/4	7/16	3/16	37-0401	5/16 — 5/8 — 1 1/8
37-8629	1/4	7/16	1/4	37-8636	3/8 — 9/16 — 1/8
37-8630	1/4	7/16	3/8	37-8637	3/8 — 13/16 — 1/2
37-0470	1/4	1/2	3/32	37-0402	3/8 — 3/4 — 1/2
37-0435	1/4	3/4	1/2	37-0403	3/8 — 5/8 X 7/8
37-8631	1/4	7/16	5/8	23-0600	3/8 — 9/16 — 1/4 (a)
37-8632	1/4	7/16	3/4	23-1742	3/8 — 3/4 — 3/16 (b)
37-8633	1/4	7/16	7/8	37-8638	7/16 — 1 1/16 — 5/16
37-8634	1/4	7/16	1 1/16		

(a): Replaces 44132-72 Disc Brake Caliper Washer

(b): Replaces 50668-35 1958-78 Master Cylinder Spacer

**Chrome Countersunk Washer Sets** are the 82° type to accept flat head socket screws.

VT No. Size Quantity

9843-8	#10	8
9835-8	5/16"	8
9836-5	3/8"	5
9844-5	7/16"	5



**Chrome Top Engine Mount Spacer Set** for spacing out top mount or wide tire conversions. Spacers have 7/16" inner diameter with 1 1/8" outside diameter.

VT No. Thickness

37-0438	5/8"
37-0419	3/4"
37-0437	1/2"



# Washer



**Lockwasher Biter Assortment** includes 50 pieces of each size.

VT No. 37-0535

## Lock Washers

Zinc	Chrome	OEM	Inner Diameter	Qty.
37-0689	37-9053	—	#8	100
37-0852	—	—	#10	25
37-0690	37-9054	6998	1/4"	100
—	9516-12	6998	1/4"	12
37-0691	37-9055	7041	5/16"	100
—	9517-12	7041	5/16"	12
37-0692	37-9056	7038	3/8"	100
—	9518-6	7038	3/8"	6
37-0693	37-9057	7039	7/16"	100
—	9519-6	7039	7/16"	6
37-0694	37-9058	7068	1/2"	100
37-0798	—	7238	1/2"	25
—	9971-5	—	1/2"	5
37-0695	37-9059	7022	5/8"	50

## Flat Washers

Zinc	Chrome	Inner Diameter	Type	Qty.
37-0681	37-8557	#8	Standard	100
37-0682	37-8558	#10	Standard	100
—	8166-12	1/4"	Standard	12
37-0683	37-8559	1/4"	Standard	100
—	8167-12	5/16"	Standard	12
37-0684	37-8560	5/16"	Standard	100
—	8168-6	3/8"	Standard	6
37-0685	37-8561	3/8"	Standard	100
—	8169-6	7/16"	Standard	6
37-0686	37-8562	7/16"	Standard	100
37-0687	37-8563	1/2"	Standard	100
—	9972-5	1/2"	Standard	5
37-0688	37-8564	5/8"	Standard	50
37-9273**	37-8565	5/8"	(Outside Diameter) OE	100
37-9272	—	1/4"	OE	25
—	9633-50	1/4"	OE	50
—	37-8567*	1/4"	Special	50
—	2115-12*	1/4"	Special	12
—	37-8568*	5/16"	Special	50
—	2110-12*	5/16"	Special	12
—	37-8569*	3/8"	Special	50
—	2114-6*	3/8"	Special	6
—	37-8570*	7/16"	Special	50
—	2112-6*	7/16"	Special	6
—	37-8571*	1/2"	Special	25
—	37-8572*	5/8"	Special	25

\*Note: Extra thick with tighter fitting inner diameter than standard SAE washers.

\*\*Note: 25 pieces per pack



# Nut

Thread Size Application Chart

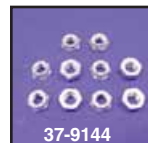
Fine Size	Thread Type	Coarse Size	Thread Type
1/4-28	SAE	1/4-20	UNC
5/16-24	SAE	5/16-18	UNC
3/8-24	SAE	3/8-16	UNC
7/16-20	SAE	7/16-14	UNC
1/2-20	SAE	1/2-13	UNC
9/16-18	SAE	9/16-12	UNC



**Hex Nuts** sold either in zinc or chrome, Nyloc or Standard. Nyloc features a plastic insert for vibration proof mounting, 20 pack for chrome and 50 pack for zinc

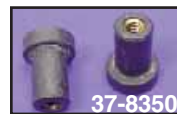
Chrome Standard	Chrome Nyloc	Zinc Standard	Zinc Nyloc	Size
—	—	39-0166	—	<sup>6</sup> / <sub>32</sub>
—	—	39-0167	—	<sup>8</sup> / <sub>32</sub>
37-8110	37-8119	37-0657	37-0666	<sup>1</sup> / <sub>4</sub> -20
37-8111	37-8120	37-0658	37-0667	<sup>1</sup> / <sub>4</sub> -28
37-8112	37-8121	37-0659	37-0668	<sup>5</sup> / <sub>16</sub> -18
37-8113	37-8122	37-0660	37-0669	<sup>5</sup> / <sub>16</sub> -24
37-8114	37-8123	37-0661	37-0670	<sup>3</sup> / <sub>8</sub> -16
37-8115	37-8124	37-0662	37-0671	<sup>3</sup> / <sub>8</sub> -24
37-8116	37-8125	37-0663	37-0672	<sup>1</sup> / <sub>2</sub> -20
37-8117	37-8126	37-0664	37-0673	<sup>7</sup> / <sub>16</sub> -20
37-8118*	37-8127*	37-0665	37-0674	<sup>5</sup> / <sub>8</sub> -18
37-8145	—	—	—	<sup>5</sup> / <sub>8</sub> -11

\*Note: Sold in 10 pack.



**Flexloc Nuts Replicas** are all metal, cadmium plated.

VT No.	Size	VT No.	Size
37-9144	<sup>10</sup> / <sub>24</sub>	37-0875	<sup>5</sup> / <sub>16</sub> -18
37-0850	<sup>10</sup> / <sub>32</sub>	37-9146	<sup>5</sup> / <sub>16</sub> -24
37-9150	<sup>1</sup> / <sub>4</sub> -20	37-0876	<sup>3</sup> / <sub>8</sub> -16
37-9145	<sup>1</sup> / <sub>4</sub> -28 Fine	37-9147	<sup>3</sup> / <sub>8</sub> -24
12-0571	<sup>5</sup> / <sub>16</sub> -24 Thin	37-9148	<sup>7</sup> / <sub>16</sub> -20
9918-8	<sup>5</sup> / <sub>16</sub> -24 Thin 8pc	37-9149	<sup>1</sup> / <sub>2</sub> -20



**Well-Nuts** are rubber inserts which press in panels as threaded inserts.

VT No.	OEM	Thread	Type
37-9193	5210	<sup>6</sup> / <sub>32</sub>	Headlight
37-9194	5207	<sup>10</sup> / <sub>32</sub>	Module
37-8348	8099	<sup>1</sup> / <sub>4</sub> -20	FXR Cover
37-8350	8098	<sup>10</sup> / <sub>24</sub>	FXR Horn Mount



**Red Cap Nuts** are plastic red caps on zinc or cadmium replica nuts as used on rocker shaft ends. Available in popular sizes for matching engine and transmission, SAE fine thread only.

VT No.	Size
37-8778	10-32
37-8779	<sup>1</sup> / <sub>4</sub> -28
37-8783	<sup>1</sup> / <sub>2</sub> -20

## Pike Nuts, Fine

VT No.	Size	U/M	VT No.	Size	U/M
6901-5	10-32 SAE	5 pack	6910-5	10-24	5 pack
6902-5	<sup>1</sup> / <sub>4</sub> -28 SAE	5 pack	6911-5	<sup>1</sup> / <sub>4</sub> -20	5 pack
6900-5	<sup>1</sup> / <sub>4</sub> -24 HD	5 pack	6912-4	<sup>5</sup> / <sub>16</sub> -18	4 pack
6903-4	<sup>5</sup> / <sub>16</sub> -24 SAE	4 pack	6913-3	<sup>3</sup> / <sub>8</sub> -16	3 pack
6904-3	<sup>3</sup> / <sub>8</sub> -24 SAE	3 pack	6914-2	<sup>7</sup> / <sub>16</sub> -14	2 pack
6905-2	<sup>7</sup> / <sub>16</sub> -20 SAE	2 pack	6915-1	<sup>1</sup> / <sub>2</sub> -13	Each
6906-1	<sup>1</sup> / <sub>2</sub> -20 SAE	Each	6916-1	<sup>9</sup> / <sub>16</sub> -12	Each
6907-1	<sup>9</sup> / <sub>16</sub> -18 SAE	Each	6917-1*	<sup>5</sup> / <sub>8</sub> -11, (1")	Each
6908-1*	<sup>5</sup> / <sub>8</sub> -18 SAE, (1")	Each	6918-1*	<sup>5</sup> / <sub>8</sub> -11, (1 <sup>1</sup> / <sub>4</sub> ")	Each
6909-1*	<sup>5</sup> / <sub>8</sub> -18 SAE, (1 <sup>1</sup> / <sub>4</sub> ")	Ea	*Note: Hex Size		
44-0647*	<sup>3</sup> / <sub>4</sub> -16 SAE, (1 <sup>1</sup> / <sub>4</sub> ")	Pair			



## Cap Nuts, Fine

VT No.	Size	U/M	VT No.	Size	U/M
8414-5	<sup>1</sup> / <sub>4</sub> -24 HD	5 pack	8423-5	10-24	5 pack
8415-5	10-32,	5 pack	8424-5	<sup>1</sup> / <sub>4</sub> -20	5 pack
8416-5	<sup>1</sup> / <sub>4</sub> -28	5 pack	8425-4	<sup>5</sup> / <sub>16</sub> -18	4 pack
8417-4	<sup>5</sup> / <sub>16</sub> -24	4 pack	8426-3	<sup>3</sup> / <sub>8</sub> -16	3 pack
8418-3	<sup>3</sup> / <sub>8</sub> -24	3 pack	8427-2	<sup>7</sup> / <sub>16</sub> -14	2 pack
8419-2	<sup>7</sup> / <sub>16</sub> -20	2 pack	8428-1	<sup>1</sup> / <sub>2</sub> -13	Each
8420-1	<sup>1</sup> / <sub>2</sub> -20	Each	8429-1	<sup>9</sup> / <sub>16</sub> -12	Each
8421-1	<sup>9</sup> / <sub>16</sub> -18	Each	8430-1*	<sup>5</sup> / <sub>8</sub> -11 <sup>15</sup> / <sub>16</sub> "	Each
8422-1*	<sup>5</sup> / <sub>8</sub> -18, <sup>15</sup> / <sub>16</sub> "	Each	*Note: Hex Size		



## Acorn Nuts, Fine

VT No.	Size	U/M	VT No.	Size	U/M
6930-5	<sup>1</sup> / <sub>4</sub> -24 HD	5 pack	6941-5	10-24	5 pack
6931-5	10-32	5 pack	6942-5	<sup>1</sup> / <sub>4</sub> -20	5 pack
6932-5	<sup>1</sup> / <sub>4</sub> -28	5 pack	6943-4	<sup>5</sup> / <sub>16</sub> -18	4 pack
6933-4	<sup>5</sup> / <sub>16</sub> -24	4 pack	6944-3	<sup>3</sup> / <sub>8</sub> -16	3 pack
6934-3	<sup>3</sup> / <sub>8</sub> -24	3 pack	6945-2	<sup>7</sup> / <sub>16</sub> -14	2 pack
6935-2	<sup>7</sup> / <sub>16</sub> -20	2 pack	6946-1	<sup>1</sup> / <sub>2</sub> -13	Each
6936-1	<sup>1</sup> / <sub>2</sub> -20	Each	6947-1	<sup>9</sup> / <sub>16</sub> -12	Each
6937-1	<sup>9</sup> / <sub>16</sub> -18	Each	6948-1*	<sup>5</sup> / <sub>8</sub> -11 ( <sup>15</sup> / <sub>16</sub> )	Each
6938-1*	<sup>5</sup> / <sub>8</sub> -18, ( <sup>15</sup> / <sub>16</sub> )	Each			
6939-1*	<sup>3</sup> / <sub>4</sub> -16, (1 <sup>1</sup> / <sub>8</sub> )	Each			
6940-1*	<sup>5</sup> / <sub>8</sub> -18, (1 <sup>1</sup> / <sub>4</sub> )	Each	*Note: Hex Size		
37-0889	<sup>3</sup> / <sub>4</sub> -16, (1 <sup>1</sup> / <sub>4</sub> )	Each			



# Factory Type Washer, Nut and Screw



## Replica Steel Washers. Zinc plated

unless noted. Check  
Parts Book for fitment.

VT No.	OEM	Size/Thickness
37-9307	6001	7/16 — 3/4 — 1/16, Black
37-9333	6002	5/16 — 5/8 — 1/16
37-9340	6011	3/32 — 5/16 — 1/32, Brass
37-9195	6016	11/32 — 11/16 — 1/16
37-9266	6019	3/8 — 29/32 — 1/16
37-0836	6026	3/8 — 7/8 — 7/64
37-0801	6033	3/8 — 9/16 — 1/16
37-0802	6052	9/16 — 5/16 — 1/16
37-9339	6053	3/16 — 7/16 — 1/16, Nylon
37-9338	6054	3/16 — 9/16 — 1/16, Nylon
37-9352	6072	3/8 — 1 1/4 — 1/16
37-0532	6083	3/8 — 2 — 3/50
37-9267	6099	1/4 — 7/16 — 1/16
37-9268	6109	5/16 — 11/16 — 1/8
37-9269	6113	1/2 — 13/16 — 1/32
37-9270	6115	13/32 — 23/32 — 1/16
37-0554	6121	
9985-24	6150	3/16 — 3/8 — 1/16, Cadmium
14-0031	6156	3/16 — 3/8, Brass (5)
37-0843	6187W	13/64 — 9/16 — 1/16
37-9271	6189W	#8 — 3/8 — 1/32
37-9309	6192	#8 — 7/16 — 3/64
37-0856	6194	13/64 — 1 1/16 — 3/64
37-9337	6228W	1/4 — 1/2 — 1/16
37-9336	6229W	5/16 — 1 1/16 — 3/64
23-1700	6230	11/32 — 13/32 x 4/125
37-9043	6220W	1/4 — 7/16 — 1/32
37-9319	6235	1/4 — 23/32 — 1/16
37-9298	6237	5/16 — 1 1/8 — 5/64
37-9394	6239	1/4 — 1/2 — 3/32
37-9272	6242W	1/4 — 9/16 — 1/32
37-9523	6310	1/4 — 9/16 — 1/32
37-9273	6316HW	9/16 — 5/16 — 1/32
37-9335	6317	3/4 — 1 1/2 — 1/32, Nylon
12-1158	6320	5/16 — 5/8 — 1/16
37-9362	6324W	5/16 — 11/16 — 1/16
37-9274	6327B	5/16 — 3/4 — 3/64
37-9347	6329	5/16 — 7/8 — 5/64
37-0837	6332B	5/16 — 15/16 — 3/64
37-9275	6333	5/16 — 7/8 — 5/64
37-0811	6365	1/2 — 1 1/4 — 1/16
12-0418	6366	1/2 — 1 1/4 — 3/32
37-9310	6379W	3/8 — 5/8 — 3/64
37-0838	6388HB	3/8 — 23/32 — 1/16
37-9326	6341B	5/16 — 1 1/8 — 3/64
37-9276	6334	7/16 — 1 — 1/8
37-0838	6388HB	3/8 — 23/32 — 1/16
37-9277	6395B	3/8 — 13/16 — 1/16
37-0835	6400HB	5/16 — 13/16 — 3/32
37-0839	6408	25/64 — 55/64 — 1/8
37-0792	6408	25/64 — 55/64 — 1/8, Parkerized
37-0797	6408	25/64 — 55/64 — 1/8, Zinc
37-8858	6410	1/4 — 9/16 — 1/16, Nylon
54-0432	6415W	3/8 — 1 1/8 — 3/32
37-9278	6417W	3/8 — 1 1/8 — 1/8
37-9324	6418B	3/8 — 1 1/8 — 11/64
12-9918	6443W	3/8 — 1 1/8 — 1/8
37-9313	6440	13/32 — 11/16 — 1/32
12-1193	6466W	13/32 — 5/8 — 1/32
8170-10	6469HW	7/16 — 3/4 — 1/8
37-9239	6469	7/16 — 3/4 — 1/8
37-9279	6473HB	29/64 — 51/64 — 1/16
37-0570	6474	3/8 — 13/16 — 5/32
37-9280	6481	15/32 — 13/16 — 9/64
37-9281	6486HW	29/64 — 13/16 — 3/32
37-9282	6490HB	7/16 — 15/16 — 1/8
37-9283	6495HW	7/16 — 15/16 — 1/8
37-9133	6495HW	7/16 — 1 1/8 — 3/64
37-9320	6516W	7/16 — 1 1/8 — 1/8
37-9284	6521W	7/16 — 1 1/8 — 3/32
37-9285	6522HB	7/16 — 1 1/8 — 5/32

## Washers Continued

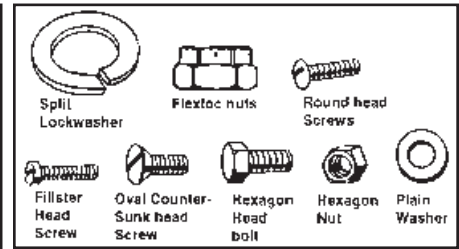
37-9286	6524W	7/16 — 1 1/8 — 1/32
37-0010	6543	31/64 — 3/4 — 1/64
37-0011	6565W	1/2 — 3/4 — 3/32
37-9305	6645	31/64 — 11/32 — 1/8
37-1951	6911A	1/2 — 1 1/8 — 3/32, Parkerized
37-1952	6590HW	1/2 — 1 1/8 — 3/32, Zinc
37-9291	6653A	5/8 — 1 5/16 — 3/32
37-9292	6655	5/8 — 1 1/2 — 3/32
37-9308	6663HB	9/16 — 1 1/8 — 3/32
37-0696	6701	3/8 — 13/16 — 1/16
37-9287	6702	5/16 — 11/16 — 1/16
37-0697	6703	1/4 — 5/8 — 1/16
37-9351	6716	#10 — 1/2 — 3/64
54-0437	6724W	21/32 — 1 1/16 — 1/16
37-9135	6736	9/32 — 5/8 — 1/16
12-1157	6737	57/64 — 1 3/64 — 1/32
37-9288	6738	17/32 — 7/8 — 7/64
37-9344	6758	3/8 — 37/64 — 1/16
37-9342	6759	3/16 — 3/8 — 1/32
37-9323	6771A	21/64 — 33/64 — 1/16
37-9361	6780	11/16 — 29/32 — 1/16
37-0791	6788	5/16 — 1 — 1/16, Stainless Steel
37-9353	6804	1/2 — 1 1/8 — 1/16
37-0857	6807W	1/2 — 3/4 — 1/32
37-9325	6846	29/64 — 71/200 — 1/16
37-0814	7400HB	3/8 — 13/16 — 7/64

## Nuts

37-0436	10-24 Hex Nut
37-0701	1/4"-28 N.F. Thread Acorn Nut, Chrome
37-0702	1/4"-20 N.C. — 1/4" — 1/2" Hex Nut
37-0703	1/4"-24 N.S. — 5/32" — 7/16" Hex Nut
37-0704	1/4"-24 N.S. — 1/4" — 1/2" Hex Nut
37-0705	5/16"-24 N.F. Thread Flexloc Nut
37-0706	5/16"-18 N.C. — 17/64" — 1/2" Hex Nut
37-0707	5/16"-24 N.F. — 17/64" — 1/2" Hex Nut
37-0829	5/16"-24 N.F. — 17/64" — 1/2" Hex Nut, Cadmium
37-0708	5/16"-24 N.F. — 5/16" — 9/16" Hex Nut
37-0709	3/8"-24 N.F. — 1/4" — 9/16" Hex Nut
37-0710	3/8"-24 N.F. — 21/64" — 9/16" Hex Nut
37-0712	3/8"-24 N.F. — 1/2" — 9/16" Hex Nut
37-0714	7/16"-20 N.F. Thread Flexloc Nut
37-0715	7/16"-20 N.F. — 1/4" — 9/16" Hex Nut
37-0716	7/16"-20 N.F. — 1/4" — 5/8" Hex Nut
37-0717	7/16"-20 N.F. — 3/8" — 5/8" Hex Nut
37-0718	7/16"-20 N.F. — 3/8" — 5/8" Hex Nut
37-0719	7/16"-20 N.F. — 1/2" — 5/8" Hex Nut
37-0720	7/16"-20 N.F. — 3/8" — 3/4" Hex Nut
37-0721	7/16"-20 N.F. — 7/16" — 3/4" Hex Nut
37-0862	7/16"-20 N.F. (7859) Hex Nut
37-0871	7/16"-20 N.F. (7859) Hex Nut, Chrome
37-0722	7/16"-18V x 1/4" x 11/16" Hex Nut
37-0723	1/2"-20 N.F. x 3/8" — 3/4" Hex Nut
37-0724	1/2"-20 N.F. — 5/16" — 13/16" Hex Nut
37-0725	1/2"-20 N.F. — 7/32" — 7/8" Hex Nut
37-0726	1/2"-20 N.F. — 7/16" — 7/8" Hex Nut
37-0727	1/2"-20 N.F. — 17/32" — 7/8" Hex Nut
37-0728	9/16"-18 N.F. — 11/32" — 15/16" Hex Nut
37-0729	9/16"-18 N.F. — 1/2" — 15/16" Hex Nut
37-0730	5/8"-18 N.F. — 7/32" — 15/16" Hex Nut
37-0731	5/8"-18 N.F. — 7/16" — 7/8" Hex Nut
37-0732	5/8"-24 N.E.F. — 7/32" — 7/8" Hex Nut
37-0733	1"-20 N.E.F. — 3/8" — 1 3/8" Hex Nut
37-0735	5/16"-24 N.F. — 3/16" — 1/2" Hex Nut

## Washers

37-0737	3/16" — 7/16" — 1/32" Plain Steel Washer
37-0738	1/4" — 5/8" — 1/16" Plain Steel Washer
37-0740	5/16" — 1/2" — 1/16" Plain Steel Washer
37-0741	5/16" — 11/16" — 1/16" Plain Steel Washer
37-0742	25/64" — 1" — 1/8" Plain Steel Washer
37-0743	3/8" — 13/16" — 1/16" Plain Steel Washer
37-0744	7/16" — 15/16" — 1/8" Plain Steel Washer
37-0746	8-32 N.C. — 5/8" Round Head Screw



Parkerized finish unless  
noted otherwise.

**COLONY**

## Screws

37-0739	8-32 N.C. — 3/8" Fillister Head Screw
37-0736	8-32 N.C. — 1/4" Round Head Screw
37-0750	10-24 N.C. — 1/2" Fillister Head Screw
37-0751	10-32 N.F. — 1/4" Round Head Screw
37-0752	10-32 N.F. — 3/8" Fillister Head Screw
37-0753	10-32 N.F. — 1/2" Fillister Head Screw
37-0851	10-32 N.F. — 1/2" Flathead Screw, SS
12-0583	10-32 N.F. — 5/8" Fillister
37-0755	1/4" — 15/32" Countersunk Shake Proof Washer, Parkerized
37-0756	10-32 N.F. — 5/8" Fillister Head Screw
37-0757	5/16" — 5/8" Countersunk Shake Proof Lockwasher, Parkerized
12-0583	10-32 N.F. x 5/8" Fillister Head Screw, Zinc
37-0953	12-24 N.C. x 1/2" Fillister Zinc
37-0758	10-24 N.C. x 1/2" Fillister Head Screw
37-0956	10-24 x 5/8" Fillister, Stainless Steel
37-0759	12-24 N.C. — 13/16" Oval Countersunk
37-0760	12-24 N.C. — 1/2" Oval Countersunk
37-0761	1/4"-24 N.S. — 7/16" Round Head Screw
37-0762	1/4"-24 N.S. — 1/2" Round Head Screw
37-0763	1/4"-24 N.S. — 5/8" Round Head Screw
37-0764	1/4"-24 N.S. — 5/8" Round Head Screw, Chrome
37-0834	1/4"-24 N.S. — 5/8" Round Head Screw, Cadmium
37-0765	1/4"-24 N.S. — 3/4" Hexagon Head Bolt
37-0766	1/4"-24 N.S. — 1 1/8" Oval Countersunk
37-0767	1/4"-24 N.S. — 13/16" Oval Countersunk
37-0768	5/16"-24 N.F. — 3/4" Hexagon Head Bolt
37-0769	5/16"-24 N.F. — 7/8" Hexagon Head Bolt
37-0770	5/16"-24 N.F. — 1" Hexagon Head Bolt
37-0771	5/16"-24 N.F. — 1 1/8" Hexagon Head Bolt
37-0772	5/16"-24 N.S. — 1 1/4" Hexagon Head Bolt
37-0773	3/8"-24 N.C. — 13/16" Hexagon Head Bolt
37-0774	3/8"-16 N.C. — 13/8" Hexagon Head Bolt
37-0775	3/8"-24 N.F. — 1 3/8" Hexagon Head Bolt
<b>Flatwashers and Lockwashers</b>	
37-0777	1/4" Parkerized Flatwashers
37-0778	1/4" Parkerized Lockwashers
37-0779	#10 Parkerized Flatwashers
37-0780	#10 Parkerized Lockwashers
37-0781	#12 Parkerized Flatwashers
37-0782	#12 Parkerized Lockwashers
37-0783	3/8" Parkerized Flatwashers
37-0784	3/8" Parkerized Lockwashers
37-0785	5/16" Parkerized Flatwashers
37-0786	5/16" Parkerized Lockwashers
37-0828	5/16" Cadmium Lockwashers
37-0787	7/16" Parkerized Flatwashers
37-0788	7/16" Parkerized Lockwashers
37-0789	#8 Parkerized Flatwashers
37-0790	#8 Parkerized Lockwashers

## Cotter Pin

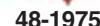
37-0747	1/16" — 1/2" Cotter Pin
37-0749	3/32" — 1" Cotter Pin



VT No.	Item
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**48-1333**



48-0237

**48-0238**

48-0240

48-0241

48-0243



48-1657

48-1661

48-1662

**48-1663**

48-1664

48-1665

VT No.	Type
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**48-0237** Hand Cuff

**48-0240** Lever Blade

48-0243 Bearing

40-0243 Dealing

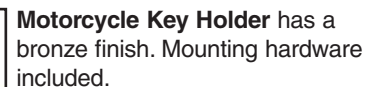
**48-1657 Motor**

**48-1662** Panhead

48-1664 45

48-1665 Ev

48-1005 Evolutionary



VT No. 48-0947